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The invention relates to the mechanical engineering, in particular to the workpiece surface strengthening by plastic deformation.

The device for realization of the process for knurling the teeth of conic wheels with strengthening of their surface includes a frame 1, coaxially installed onto the crank 2 and a body 3, onto which there are rigidly mounted brackets 4. Onto the brackets 4 there are mounted conic knurls 5, each of which is installed onto axes 6. The conic knurls 5 form teeth onto the work piece 7, rigidly fixed by means of clamps 8 to the table 9, which is installed coaxially about the body 10 with the possibility of rotation. The device additionally includes a transducer 13, joined with an ultrasonic generator 14, and a control system 15.

Claims: 4

Fig.: 2

