

Summary

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Pidlisna Yulia Mykholaivna. Master's Diploma Paper. The topic "Modernization of the vertical milling machine with the theoretical substantiation of forming regular projections on the flat surfaces".

Number of page – 180.

The object of investigation – the process of forming regular microprojections on the flat surfaces.

The subject of investigation – mechanism of the tape feeding and devices for forming regular microprojection on the flat surfaces.

The Objective – modernization of the vertical milling machine for providing regular microprojections on the flat surfaces.

The Master's Diploma Paper deals with the analysis of the available devices for forming regular microprojections. New constructions of the devices for forming regular microprojections on the flat surfaces of the tapes have been proposed. The mechanism of tape-feeding has been designed. Dependence for finding the relative square of the vibro-spinning under different kinds of regular microprojection depending on the vibro-spinning elements have been obtained. Technical-economic substantiation of the development of the proposed engineering solution and measures for the labour protection and labour safety in accidents and ecology, have been presented.

Key words: vertical milling machine, regular microprojection, device for forming regular microprojection, total square of the surface, relative square of vibro-spinning, amplitude, step, groove width.