THE QUESTION OF MATHEMATICAL MODELING OF FORMATION WOUND BLANKS

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Agricultural production perspective of different parts with screw auger working bodies, especially in the construction of screw conveyors, mixers, dressers and others. Therefore the question of mathematical modeling of their formation to ensure the accuracy and performance parameters are relevant processes.

An analysis of prominent research issues of developing adequate mathematical models whose results can be used in the design in process coiling spiral pieces, now underdeveloped.

The purpose of research - development of a mathematical model of formation navyvnyh blanks.

Results. In the manufacture of divers navyvnyh pieces (NC) with complex geometries movements of the working process equipment must meet specific manufacturing process of formation. It is therefore necessary to determine the relationship between the characteristic parameters of this process. A convenient parameterization is subject to formative tool movements are determined by the machine control and design of the circuit formation.

The proposed method of mathematical modeling of forming navyvnyh blanks enables:

1) determine the sequence of coordinated movements of parts of the actuators which support the initial set of process tasks;

2) calculate the trajectory of movement of formative tools and prepare the necessary documentation;

3) Use Formulas to calculate and design the necessary technological equipment and formative tool;

4) in the design of new equipment to choose kinematics executive of the machine;

5) to carry out preliminary studies these processes in analytical mode, 3D-modeling.