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Foundry complex of the armored plant and development of technology for the production of castings of the "Key" and "Bracket" type from iron-carbon alloys

The master thesis consists of: 146 pages, 57 table, 14 references, 5 pictures.

In the master's thesis, a model-forming department of a foundry with a capacity of 30000 ton/year with an annual production program of castings in the amount of 17775450 is developed. The nomenclature of castings includes 30 items weighing from 0,2 kg to 9 kg.

Development of technology for the production of "Key" type castings from low-alloy steel grade G38Cr-3, weighing 0,29 kg, and "Bracket" castings from alloy steel grade G40Cr-3, weighing 0,42 kg, by lost wax casting.

The results of the design are the development of the casting manufacturing technology and the completed technical planning of the foundry and equipment. Calculations of organization and economic factors are also provided and a Start-up project is developed.

During the design of the department, it is a mandatory factor of ensure its high technical level and economic efficiency, to make the most of all the achievements of science and technology. When designing you need to focus on recommendation and rules of construction by building, to use current and guiding regulation on foundry production.

KEY, BRACKET, MODELING DEPARTMENT, PRESS FORM, CONTAINER IN A COMPLETED APPEARANCE, ORGANIZATIONAL AND ECONOMIC FACTORS, START-UP PROJECT.