

Diploma project: 77 pages, 42 tables, 3 figures, 5 appendices.

Design object - the technological process of manufacturing gray cast iron "Compressor housing" with a mass of 128.0 kg by casting in one-time three-dimensional sand-clay molds is being developed.

The subject of design is foundry mold technology, organization of work of the melting department of the foundry shop.

Design results – foundry mold technology was developed, technical planning of the melting department and foundry equipment was completed.

The design results can be recommended for implementation in the production of cast iron castings of medium complexity in the conditions of serial production.

The diploma project carried out basic calculations of organizational and economic factors, and also paid attention to environmental protection and improvement of sanitary and hygienic conditions of workplaces.

COMPRESSOR HOUSING, INDUCTION CRUCIBLE FURNACE, CHARGE MATERIALS, FOUNDRY MOLD, MOLDING MIXTURE, MODEL PLATE, MELTING COMPARTMENT.