

## THE ABSTRACT

The size of the degree design makes 200 pages.

The purpose of the given design are designing of the foundry complex of machine constructing plant production of aluminium alloys and steel purpose of this project by power 1500 tons of the suitable foundings for a year.

At designing the factory it is necessary to provide its tall technological level and economic efficiency, as much as possible using an achievement of science and technology. At designing the given department supported on the main technical directions in evolution of area of engineering industry, and also on rules and guidelines concerning designing and construction, used the directories of typical designs acting specifications and supervising normative deeds from foundry.

In the design the offered most effective alternatives technological processes of manufacture of castings and optimal usage.

There are the offered most effective variants of technological in a project processes of making of the poured purveyances and optimum use highly productive equipment which provides these technological processes. Spared attention by the question of avoidance of crossing of goods traffics, determination of basic and auxiliary separations, choice of type of building, placing of equipment and transport vehicles, and also improvement of terms of labour in a workshop. Approaching of producer of foundings is to the important factor of this project.

The technical armed aircraft constructing factory on production of handsheets from aluminium alloys and steel can be recommended for a heading in apartments with small-lot production.

The use in the workshop of modern equipment enables to use the progressive technological processes of making of foundings in valid for one occasion forms with the use of the mixtures.

The developed technological process of making of concrete moulding can be recommended as typical by production of steel and aluminium foundings,

Economic calculations confirm the rightness of the executed technical rearmament workshop and choice of technological processes of making of the aluminium and steel foundings.

List of keywords: FOUNDING, BAR, STOVE, CAST-IRON, STEEL, FLASK, AGGREGATE, MACHINE, GRATE, LINE, PROCESS, MIXTURE, PLAN OF WORKSHOP, SEPARATION, SIZE.