

Annotation
Course work
on discipline " Heat engineering of casting production"
Student of group ФЛ- 32
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The coursework was designed chamber furnace with portable hearth. Course work is contained in the 68 pages of printed text and a drawing of A1 format.

Explanatory note consists of an introduction, thirteen chapters, a list of links and contains seven drawing. In the introduction disclosed the essence of chamber bogie hearth furnaces.

The first section presents the calculation of the combustion of fuel (natural gas).

The second section presents the calculation of the duration of heating.

The third section presents the calculation of the internal dimensions of the oven.

The fourth section is a selection of the furnace lining.

The fifth section presents the calculation of the external dimensions of the oven.

The sixth section presents the calculation of the furnace casing.

In the seventh section presents the calculation of the heat balance and fuel consumption.

In the eighth section presents the calculation of technical and economic parameters of the furnace.

In the ninth section contains a selection of fuel-devices.

In the tenth section, the calculation of the heat exchanger.

In the eleventh section aerodynamic calculation of the furnace.

In the twelfth section, the calculation of the chimney.

In the thirteenth chapter is a selection of the fan.

Keywords: CHAMBER BOGIE HEARTH FURNACE, FUEL FURNACE,
THE HEAT EXCHANGER