

SLURRY PUMPS

Student: Barabanov T.O.

Supervisor Ignatov A.V., candidate of technical sciences,

Donetsk National Technical University

Pumps are hydraulic machines, intended for moving of liquids (water, slur, oils and other) under pressure. A pump accomplishes work due to energy, got from an engine. Part of this energy is lost on overcoming of hydraulic and mechanical resistances, other its part is expended on creation of surplus pressure, due to which motion of liquid is provided from a pump to the place of its consumption.

Pumps of the most different constructions are necessary part of equipment almost of every modern production. Blade pumps are most widespread in a national economy, in particular, centrifugal, because of simplicity of construction and comfort of exploitation the pressure created by them can exceed $250 \cdot 10^5 \text{ N/m}^2$, and productivity — 100 000 m^3/h liquids.