

## ABSTRACT

Galvanic coatings in machine engineering. Development of technical process of application of zinc coating on steel small parts.

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Diploma project, 2015 year, 95 pages, 20 tables, 4 figures, 19 sources.

For improving the corrosion resistance of steel parts the technical process of zinc plating with production 18000 sq m/year has been developed. Calculation of technological process has been realized. Metal deposition takes place from zincat electrolyte at cathodic current density 2 A/sq dm.

The project envisages measures for safety, automation, calculated the cost of 1m<sup>2</sup> of finished surfaces, waste water purification scheme is proposed.

**Key words:** galvanic zinc coating, screw, zincat electrolyte, stationary bath, drum-type electrolyser, chromating, waste water purification.

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