

SUMMARY

Stakhurskyi Oleksandr. The topic of the diploma: «Research of flowing chip cutting process and two-cutter machine-tool equipment with development of lathe machine tool primary motion gear system», pages 233, formulas 91, tables 42, figures 40, applications 3, used literature sources 42.

The goal of work: efficiency increasing of flowing chip cutting without discontinuation of technological process and corresponding machine-tool equipment .

The object of research – two-cutter mechanism of kinematical chip cutting, that is increases the efficiency of chip cutting without discontinuation of technological process.

In diploma information and patent research are performed; optimization of shaping schemes of project machine and optimization of configuration schemes are performed; technological calculations are realized and manufacturing process is developed. Component parts of machine tool are designed. The research of chip cutting process and research of highly technological equipment for lathe machines are conducted. Automated calculations have being done. Economy calculation of decisions taken is performed. Occupational health issues and safety in emergency situations and environmental protection are considered.

Keywords: CHIP, SPINDLE, KINEMATICAL CHIP CUTTING, MECHANISM, FLOWING CHIP, LATHE MACHINE TOOL, GEARBOX, TWO-CUTTER EQUIPMENT, KINEMATICAL INTERTOOL LINK, VIBRATION CUTTING