

**MANUFACTURE OF COMPONENT ON
CNC LATHE**

by

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**Project Report
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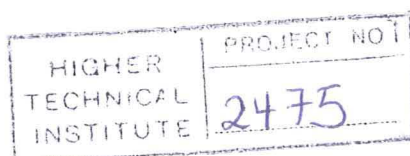
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ABSTRACT

This project deals with the manufacturing of a components on CNC lathe.

The basic theory of the project was prepared with CNC technology, following a general study of EMCO COMPACT 5 CNC lathe with its operating element . Absolute and incremental coordinates systems , linear and circular interpolation , data preparation and data input , miscellaneous and preparatory functions , canned cycles , subroutines alarm signs and tooling , are described as well.

The main part of this project is deal with the part programming for the manufacturing of a gas pressure fitting and part programming for the manufacturing of an aluminium paper holder, followed by the manufacturing of these component on the EMCO COMPACT 5 CNC lathe.

Finally a process evaluation for the production of the gas pressure fitting is prepared and some conclusions relative to the work carried out in this project.