HIGHER TECHNICAL INSTITUTE
MECHANICAL ENGINEERING COURSE

DIPLOMA PROJECT

PART PROGRAMMING ON A C.N.C. VERTICAL MILLING MACHINE

M/648

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ABSTRACT

The main objectives of this project are to study the programming characteristics of the Bridgeport IMK II (with TNC 155 Heidenhein control) CNC vertical milling machine and write a part program for the manufacture of two components.

In order to manufacture these components the design of an appropriate milling fixture to ensure location. support and clamping is essential.

All part programming has to be performed using linear interpolation, circular interpolation, canned cycles and subroutines.

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