

“AUTOMATED GUIDED VEHICLE WITH TILTING MECHANISM”

A project report submitted to

DEPARTMENT OF MECHANICAL ENGINEERING

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SYNOPSIS

Due to the increased demand and global standardization many manufacturing industries are making an attempt to automate their production to increase their output and quality standards in order to meet the customer requirements. Among the automation styles, the automated guided vehicle plays an important role in handling of materials and equipment's and aids in movement of the same at a faster rate. Automated guided vehicle also helps in the orientation, re-orientation and stacking of the products in the desired way.

The project work involves development of a multi-function automated guided vehicle which has features of lifting, tilting and transportation. The lifting and tilting mechanism that is incorporated in the automated guided vehicle makes the table self-sufficient and perform multiple operations rather than just transporting materials like the conventional automated guided vehicles are being used in today's industry. The goal of the project is to serve several functions; a work platform, a transportation device and a link in the control and information system in material handling of the factory.