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## Low Cost CNC Automation

By Patel Chetan Hanumanthappa

LAP Lambert Academic Publishing Okt 2013, 2013.

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The term automation has many definitions. Apparently, it was

first used in the early 1950s to mean automatic handling of

materials, particularly equipment used to unload and load

stamping equipment. It has now become a general term

referring to services performed, products manufactured and

inspected, information handling, materials handling, and

assembly all done automatically (i.e.as an automatic operation

without human involvement). At present, in order to solve the

low efficiency and high cost problem in the process of CNC

machines, Nowadays Manufacturers have always faced the

challenge of constantly needing to find new ways to reduce the

cost of their loading and unloading processes in machining

centers. The project title is LOW COST AUTOMATION FOR

MACHINING CENTER new concept in Machine tool industry for

continuous production, less cycle time and more accuracy.

This project contains the auto loading plate, unloading plate,

hydraulic fixture and rotary table controlling with PLC Ladder

logic controller.It is a simple automation system for auto load

and unload component to vertical CNC Machining center as

compared to the gantry auto load and unload system. 112 pp.

Englisch.



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