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## Low Cost CNC Automation

By Patel Chetan Hanumanthappa

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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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