

## Abstract

With the growth of technology and the human density necessities and requirements is also being increased. Therefore, many industries and factories are being opened and increasing their production rate frequently to fulfill the market. Most of the materials in textile industry taken into as sheets/layers use manual operated cutters or blade to cut the required part out of that. And the currently available manually operated cutting machines are a subject to a high material waste thus the final product cost may be increase and the safety of the currently available machines are very low. Except laser cutters. Which are very costly. Hence, designed automated cutting machine operated with laser cutting beam and being able to follow a cut line according to the given design coordinates externally through a computer. Hence, be able fulfill the requirements and be able to find good solution for the above discussed problems. And being able to improve this design with more sensors, controlling technics and wireless operations for a furthermore development step of this project as commercial product to the market with better accurate, time and material saving product for textile industry.

