
1. Design and Implementation of a Low Cost Modern CNC LASER Cutter:

A CNC LASER cutter was designed and fabricated. It had a bed size of 1square feet and a LASER diode of 2.5watts was used for cutting. Whole body was designed in solidWorks.



Fig: Design of the LASER Cutter.





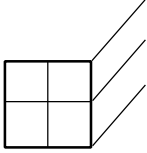


Fig: Fabrication of the LASER Cutter.

8.

Result:

The fabricated machine was tested upon various shapes.

Shape	Difference(mm)	Error (%)	Accuracy (%)
	0.2mm 0.2mm	1%	99%
	0.0mm 0.2mm	1%	99%
	1.0mm 1.1mm 1.5mm	5%	95%
	0.2mm	1%	99%
	0.0mm 0.0mm 0 Degree 0 Degree	0%	100%