



**MHRD Pandit Madan Mohan Malaviya  
National Mission on Teachers and  
Teaching (PMMMMTT)**



**Teaching  
Learning  
Centre**



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## Product Catalog

## About TLC

The Teaching Learning Centre for Design and Manufacturing Education at IIITDM Kancheepuram is funded since Oct.2015 by the MHRD under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT) scheme.

The TLC aims to design, develop and disseminate innovative Do-It-Yourself (DIY) and Build-Your-Own (BYO) low-cost laboratory instruction modules for adoption and use in engineering universities, colleges and polytechnics.

## About IIITDM

Indian Institute of Information Technology Design and Manufacturing-Kancheepuram, located on the outskirts of Chennai, is one of five MHRD-funded IIITs in the country. It is an *Institute of National Importance* and was started in 2007 with IT-centric design and manufacturing-focussed engineering education.

# Steel Panel Cart



## About

An extremely affordable DIY steel panel cart to store panels of all PVC, acrylic, MDF, plywood etc rivalling imported carts in terms of cost and usage.

## Cost

Unit Cost: Rs. 7,270

Commercial Panel cart	TLC DIY Panel cart
Rs. 75,792	Rs. 7,270

# CNC Mill

## About

A cost-effective fully automated DIY desktop CNC Mill for machining, using commercial components and open source software. It can be used to mill machinable wax, plywood, cardboard and Delrin. User can enter code manually or CAM generated CNC programs to mill parts from syllabus, or parts of their interest.

## Cost

Unit Cost: Rs. 21,610

## Samples



**CNC Mill**



## CNC Lathe

## CNC Lathe

### About

A cost-effective BYO desktop CNC Lathe for symmetrical turning using commercially available components and open source software. Students can convert CAD diagrams to CNC program (G code and M code) for turning of machinable wax, wood, Delrin and acrylic.

### Cost

Unit Cost: Rs. 44,346

### Samples





**PCB Machine**

## PCB Machine

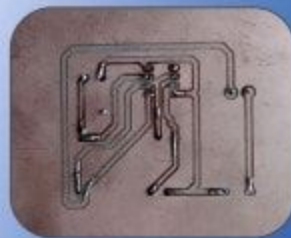
### About

A very low-cost semi-automatic PCB milling machine for double-sided printed circuit board prototyping using commercial components and open source software. The machine has auto-levelling feature and a USB microscope camera.

### Cost

Unit Cost: Rs. 24,268 (PVC frame)

### Samples





**CNC Router**

## CNC Router

### About

An affordable desktop CNC Router fabricated using commercial components and open source software. The router can machine MDF, Delrin and machinable wax.

### Cost

Machine cost: Rs. 44,278

### Samples





**Laser Engraver**

## Laser Engraver

### About

A CNC Laser Engraver built with commercial hardware and open source software. The machine uses a 2.8W laser source to engrave any pattern on materials like wood, cardboard and paper.

### Cost

Unit Cost: Rs. 26,942

### Samples



# Foam Cutter



## Foam Cutter

### About

A cost-effective Foam Cutter fabricated using commercial components. The device can be used to cut foam materials, light cardboard and thermocol into different shapes and sizes for making molds etc.

### Cost

Unit Cost: Rs. 5,799

### Samples



Commercial Foam cutter	TLC DIY Foam cutter
Rs. 42,075	Rs. 5,799





# Vinyl Cutter

## Vinyl Cutter

### About

A cost-effective fully automated Vinyl Cutter using commercial components and open source software. The machine can cut any user input design on the vinyl sheet for making labels etc with very good accuracy.

### Cost

Unit Cost: Rs. 39,190

### Samples



Commercial Vinyl cutter	TLC DIY Vinyl cutter
Rs. 88,500	Rs. 39,190



## Acrylic Bender

## Acrylic bender

### About

An affordable device for bending acrylic sheets. This simple device is useful for making casings, nameplates, stands etc very easily. It uses a regulated AC power supply unit to activate a heating element for bending.

### Cost

Unit Cost: Rs. 6,049

### Samples



Commercial Acrylic bender	TLC DIY Acrylic bender
Rs. 79,813	Rs. 6,049