RAPID PROTOTYPING AND PCB LAB

This lab of Manufacturing Technologies Development Center is equipped with latest Prototyping Machines. Currently, these equipments are being used for teaching and research work. Industrial projects are also being carried out in this lab.

LIST OF EQUIPMENTS

1. TOROIDAL INDUCTIVE COIL WINDING MACHINE
2. SPECTRUM Z510 3D PRINTER
3. DESKTOP RAPID PROTOTYPING SYSTEM
4. SMALL SCALE/LABORATORY SCALE PCB PRODUCTION SYSTEM
5. CNC DRILLING/ROUTING MACHINE

1. DESKTOP RAPID PROTOTYPING SYSTEM (HTS-300)

Main features:

1. Desktop Rapid prototyping machine HTS series (HTS-300)
2. Fused Deposition Modeling (FDM) prototype technique
3. Build volume is 280*250*300(mm)
4. Part accuracy is ±0.2
5. Building material is spool of plastic ABS (Acrylonitrile butadiene styrene)
6. Driver software is supplied with the machine and machine is to be connected to compatible computer
7. Being used for projects and research work
2. SPECTRUM Z510 - 3D PRINTER

Main features:

1. Rapid prototyping machine of Z-corp. (Z-510)
2. Inkjet Printing prototype technique
3. Build volume is 107*79*123(cm) *(cover closed)* and 107*79*1800(cm) *(cover open)*
4. Building material is ceramic powder.
5. Colored prototypes can also be produced.
6. Driver software is supplied with the machine and machine is to be connected to compatible computer
7. Being used for projects and research work
3. TOROIDAL INDUCTIVE COIL WINDING MACHINE

1. Automatic toroidal coil winding machines (SS-500 Series)
2. SS-500 Series gear type Digital toroid variable voltage transformers Winding Machines adopt precision digital toroid controller,
3. It’s an accurately and reliability digital toroid-winding machine.
4. **CNC DRILLING/ROUTING MACHINE**
   Main features:
   1. It is BUNGARD CCD MTC (manual tool change) type CCD/2
   2. Used for drilling and routing of PCBs and engraving and milling of aluminum plates.
   3. Driver software is supplied with the machine and machine is to be connected to compatible computer
   4. There is a control unit and a power supply unit.