



Prototyping Facilities: KIIT-TBI



KIIT Technology Business Incubator

Prayaslab

kiitincubator.in

Connecting to global community of learners, educators, technologists, researchers and innovators.



1

Fab Lab
Fabrication Laboratory



- Tiger – 24 Vinyl Cutting
- Electronics Assembly Unit
- Soldering Rework Station
- Electronic Tools & Components
- LabVIEW Testing & Analysis Bench
- Embedded & IoT Sensors
- Embedded Development Boards
- Bosch Tooling Set
- Bench Drill
- Hand Router Planner
- 3D Visualization & Animation
- Computer Aided Anatomy Replica
- Hardware Testing Platform



2

Digital prototyping platform
for designing and building
own technology.



3

Minimal trained people can
develop projects for personal
or commercial use.



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Facilities Available



3D Printing



3D Scanning



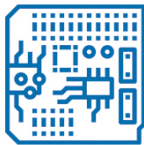
CNC Routing



Vinyl Cutting



Medical Softwares



PCB Fabrication



CNC Laser Engraving



Advanced Electronics



Digital Health Lab



Wood Working

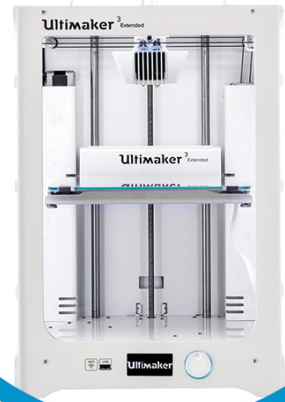


Ultimaker 3 Extended

3D Printing

The Ultimaker 3 and Ultimaker 3 Extended deliver an incredibly reliable 3D printing experience.

- Dual extrusion build volume: 197 x 215 x 200 mm
- Up to 20 micron (0.001 inch) layer resolution
- Up to 280 °C nozzle temperature
- Open filament system – print with any 2.85 mm material



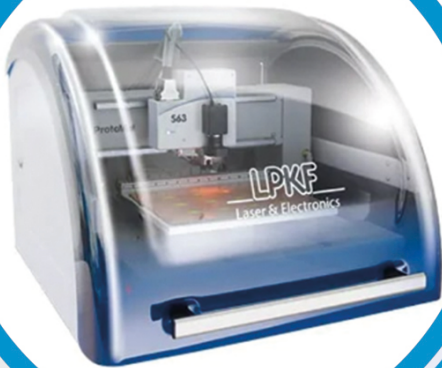
LPKF ProtoMat S63

PCB Fabrication

The ProtoMat S63 is the ideal system for virtually all in-house prototyping applications where speed and security are crucial.

High travel speed: max. 150 mm/s (6"/s)

- High speed (60,000 rpm), highest resolution (0.5 µm)
- Automatic 15-position tool changer
- Optical fiducial recognition



Tormach 770M VMC

CNC Vertical Milling

The 770M uses PathPilot® control software, developed by — and exclusive to — Tormach. Standing out from lower-cost CNC mills with custom-engineered accessories like automatic tool changers (ATCs), the Tormach Tooling System, and RapidTurn CNC chucker lathe.



EinScan - Pro+

3D Scanning

User-friendly multi-functional 3D scanner with modular design

- Supports four scanning modes
- Full-color scan by attaching the Color Pack
- Portable and ergonomic design, only 0.8kg
- Brings high-speed and high-quality 3D scanning at an entry-level price



LX-1325 CNC Router

Cutting or Carving materials

Handheld Controller allows operator to set job parameters, jog the machine and perform system tests.

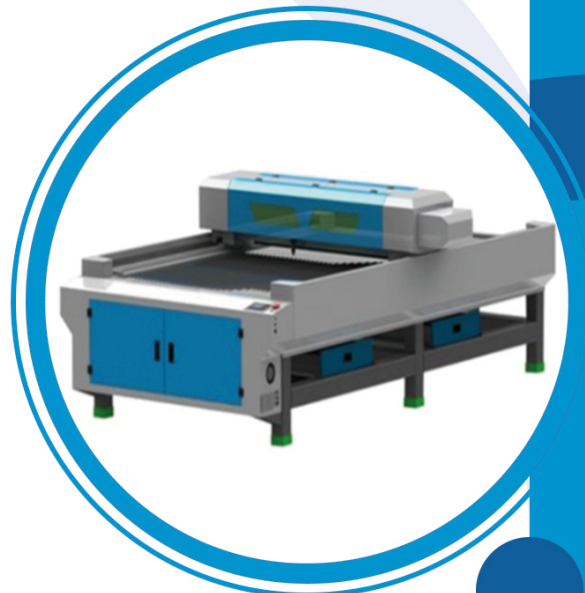
- 25 MM Linear Guideways for high positional accuracy and long life with high motion accuracy.
- Original Italian spindle gives you very stable, trouble-free, maintenance-free performance for long period of time. Upgradeable to ProtoMat S103



EVA-48 Laser Engraver

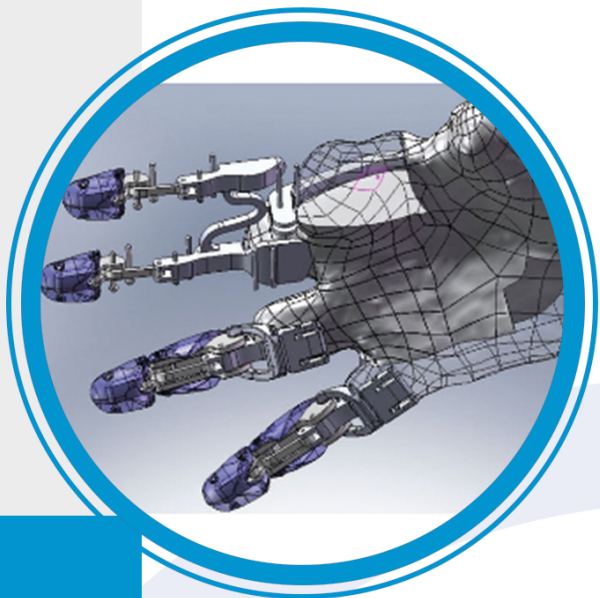
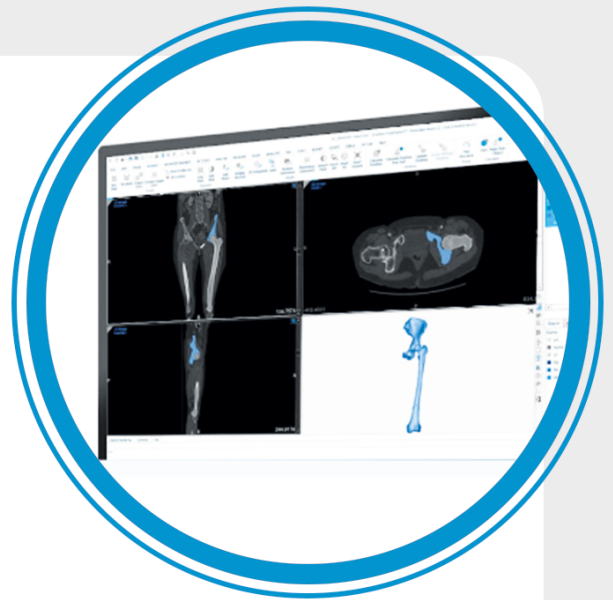
CNC Laser Engraver

- Pass Through Design for long length of work piece in Y-axis direction.
- Machine is Provided with Foot-mounting legs so that there is no vibration in machine can be adjusted on zero level.
- Machine is provided with heavy duty compressor which has Air-assist combining adjustable focus systems in coaxial jet air to prevent cutting edge from burning down
- Laser seals the edges of fabric while cutting
- Maximum cutting thickness of acrylic - 25mm



Materialise Mimics

If your goal is to improve patient care, the patient's anatomy is the right place to start. Mimics is a medical 3D image-based engineering software that efficiently takes you from image to 3D model and allows you to scale from R&D to high-volume clinical operation.



Solidworks

SolidWorks is a solid modeling computer-aided design and computer-aided engineering application published by Dassault Systèmes. SOLIDWORKS offers complete 3D software tools that let you create, simulate, publish, and manage your data. SOLIDWORKS products are easy to learn and use, and help you design products better.

Stratasys J55

The MediJet 3D Printer

The all-in-one medical printer, The J5 MediJet 3D Printer with multi-material, multicolor and biocompatible capabilities in a single print tray, MediJet sets a new standard for medical modeling. Effective in pre-surgical planning, training & education, surgical guides & tooling & medical device development.



Stratasys F170

Carbon Fiber 3D Printers

F Series printers combine industrial-grade capability with simple operation. Requiring no special expertise, F printers offer carbon fiber 3D printing, fast and easy material swaps and auto-calibration for accurate, dependable results.



LabVIEW

National Instruments

LabVIEW is a graphical programming environment engineers use to develop automated research, validation, and production test systems.



PXI Systems

NI Instruments

NI PXI systems provide high-performance modular instruments and other I/O modules that feature specialized synchronization and key software features for test and measurement applications from device validation to automated production test.





KIIT TBI Digital Health Lab is trying to solve the overwhelming challenges of Indian healthcare scenario by fostering an ecosystem for indigenous mHealth solutions (Make in India + Digital India). Its vision is to successfully develop digital health solutions for real-world applications; enabling new ideas to be tested, validated, and commercialized more rapidly, thereby making lives better.



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