NCCU FAB LAB EQUIPMENT

Desktop Plotter Cutter
Desktop Printer/Cutter

ROLAND GX-24

APPLICATIONS

Heat-applied apparel personalization
Unique signage
Decals
Speciality graphics
Window tint

SPECIFICATIONS

Resolution	0.0125 mm
Blade force	30 - 350 gf
Maximum cutting area	22.9in x 984.25in
Operating Software	Roland CutStudio Adobe Illustrator Plug-in

ROLAND BN-20

APPLICATIONS

Heat-applied apparel personalization
Custom Labels
Decals
Contour Graphics

SPECIFICATIONS

Acceptable Materials	1mm thickness
Blade force	30 - 300 gf
Maximum cutting printing area	22.9in x 18.9in
Resolution	1440 dpi
Operating Software	Roland VersaWorks

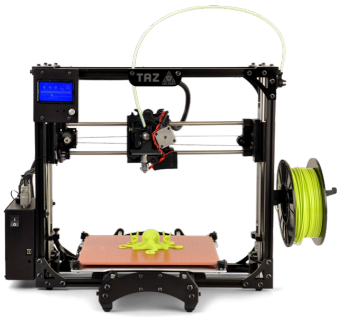
NCCU FAB LAB EQUIPMENT

3D Printers

APPLICATIONS

Initial Prototyping
Functional prototyping
Manufacturing parts
Replacement parts
Modeling

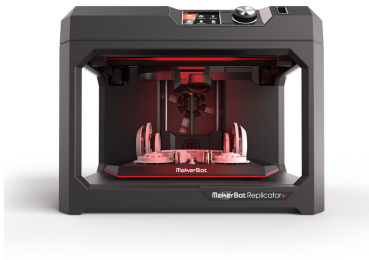
LULZBOT TAZ



WORKHORSE PRINTER

Layer Resolution: 0.5 mm
Print Volume: 280mm x 280mm x 250mm

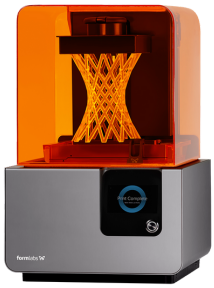
REPLICATOR+



CLASSROOM PRINTER

Layer Resolution: 100 micron
Print Volume: 290 mm x 190 mm x 165 mm

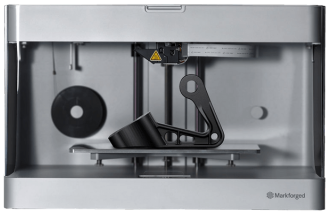
FORM 2



DESKTOP SLA PRINTER

Layer Resolution: 140 microns
Print Volume: 145 mm x 145 mm x 185 mm

MARK 2



DESKTOP CARBON FIBER

Layer Resolution: 100 micron
Print Volume: 320mm x 132mm x 154mm

NCCU FAB LAB EQUIPMENT

3D Printers

DELTAMAKER

LARGE FORMAT PRINTER

Layer Resolution: 100 microns
Print Volume: 200 mm x 200 mm x 700mm

SENSE SCANNER

HAND HELD 3D SCANNER

Scan volume: 3m x 3m x 3m
Spatial Resolution 0.9mm
Object classification
Object measurements
Object identification

CAPTURE

SCAN BASED DESIGN SCANNER

Scan volume: 190mm x 175m
Spatial Resolution 0.1mm
Inspection and Quality Control applications
Reverse engineering
Rapid prototyping
CFD/FEA Simulation analysis

NCCU FAB LAB EQUIPMENT

Machine Shop

ROLAND MD-40A

3D Milling Machine

Workspace size: 305mm X 305mm
Mechanical resolution 0.01mm/step

EPILOG HELIX

CO2 Laser Machine

Workspace size: 610mm X 305mm
Material thickness: 5.5"
Laser cut
Signage
POP displays

SHOPBOT DESKTOP

CNC Machine

Workspace size: 12" x 24"
Instrument making
Cabinet making
Digital fabrication

NCCU FAB LAB EQUIPMENT

Machine Shop

WAZER

Desktop WaterJet

Workspace size: 305mm X 305mm
Mechanical resolution 0.01mm/step

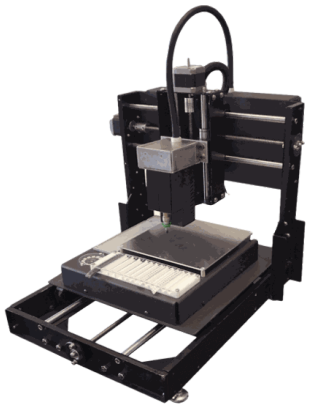
HAND TOOLS

NCCU FAB LAB EQUIPMENT

Electronics

BOT FACTORY

Desktop PCB Prototyping



RIGOL DS1052E OSCILLOSCOPE

RIGOL DC POWER SUPPLY

GLOBAL SPECIALIST PROTO-BOARD PB-503

SOLDERING STATIONS

NCCU FAB LAB EQUIPMENT

Fashion

BABY LOCK ALLEGRA

SAWGRASS PRINTER

Desktop Sublimation Printer

15" X 15" DUAL STATION HEAT PRESS