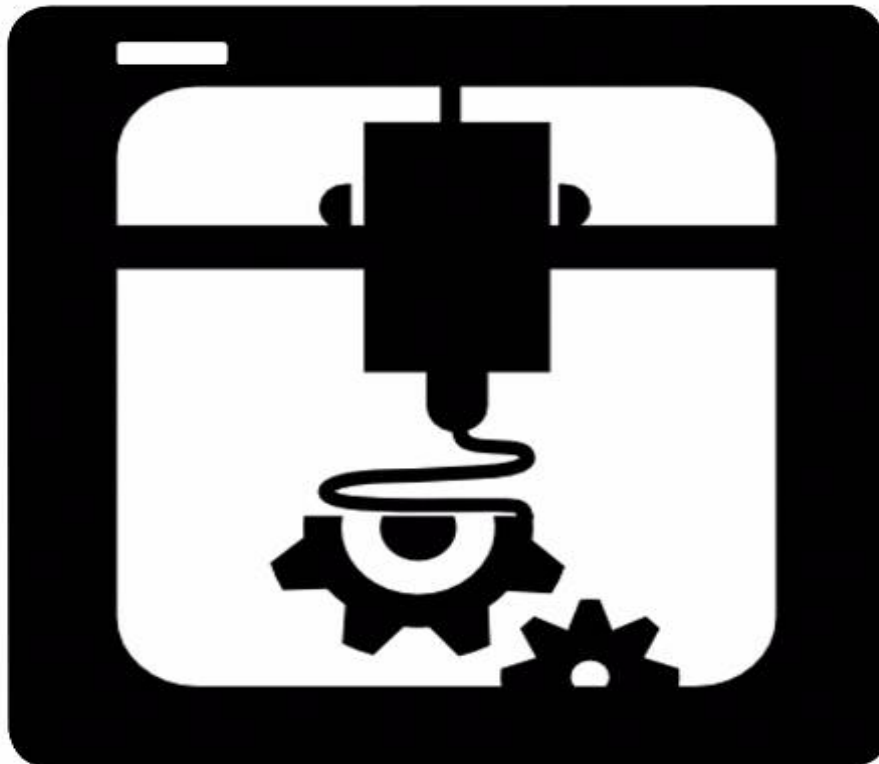3D PRINTING

Advantage at every phase of creation-
from initial concept design to the
production of final products.
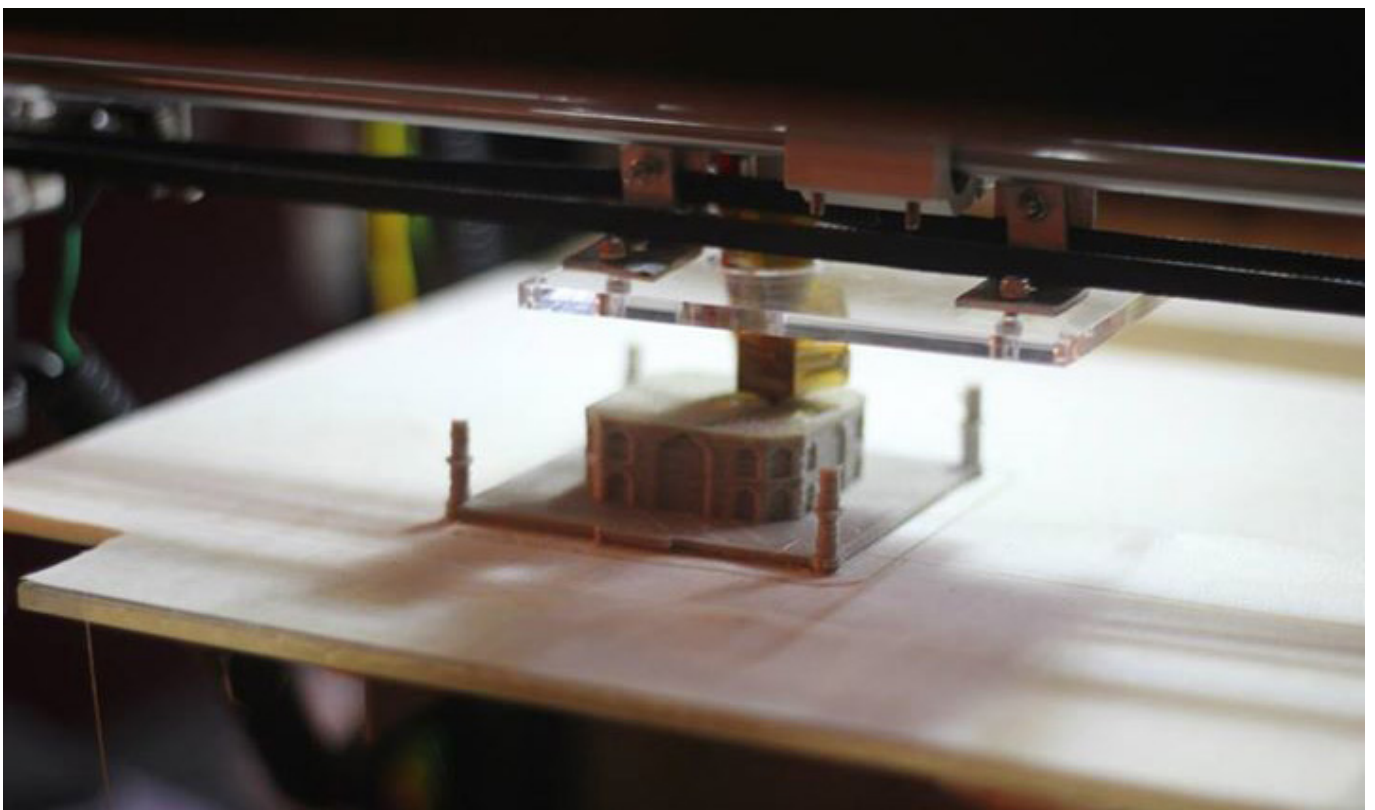
Pramaan

Desktop 3D Printer

3D Printing

3D Printers can be used in a lot of areas. Being a machine that can create possibly any 3 dimensional part, a wide array of uses can be listed. Right from educational models to end use parts, a 3D Printer can be used for educational, engineering, entertainment and research purposes.

Concept modeling has been an integral part of any Engineering process. The models can be developed for various sectors ranging from Architecture to Jewelry. The 3D printed parts give a first hand experience of how the products will look in their physical scale. The printed parts can be painted, sanded or even chromium plated to give an actual feel of the product or the architectural structure before it is brought to the production stage.

Unlike earlier processes where concept modeling consisted of separate simulation on computer and then a scaled down model made up of wood, foam etc., a 3D Printed part gives the tangibility of computer simulation and physical modeling at the same time. This prevents a lot of effort while increasing precision in concept modeling.

3D Printers can also create parts which can be used to test the functionality of a particular design that is to be used. The printers can create parts that can be tested for production before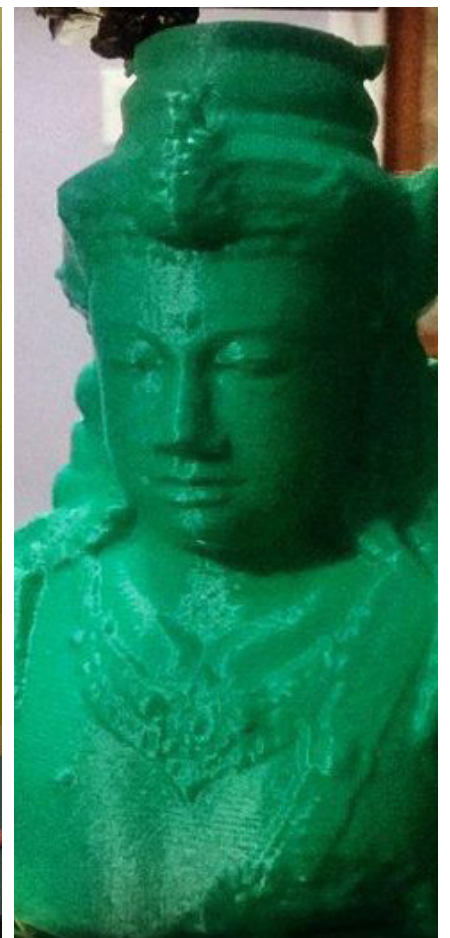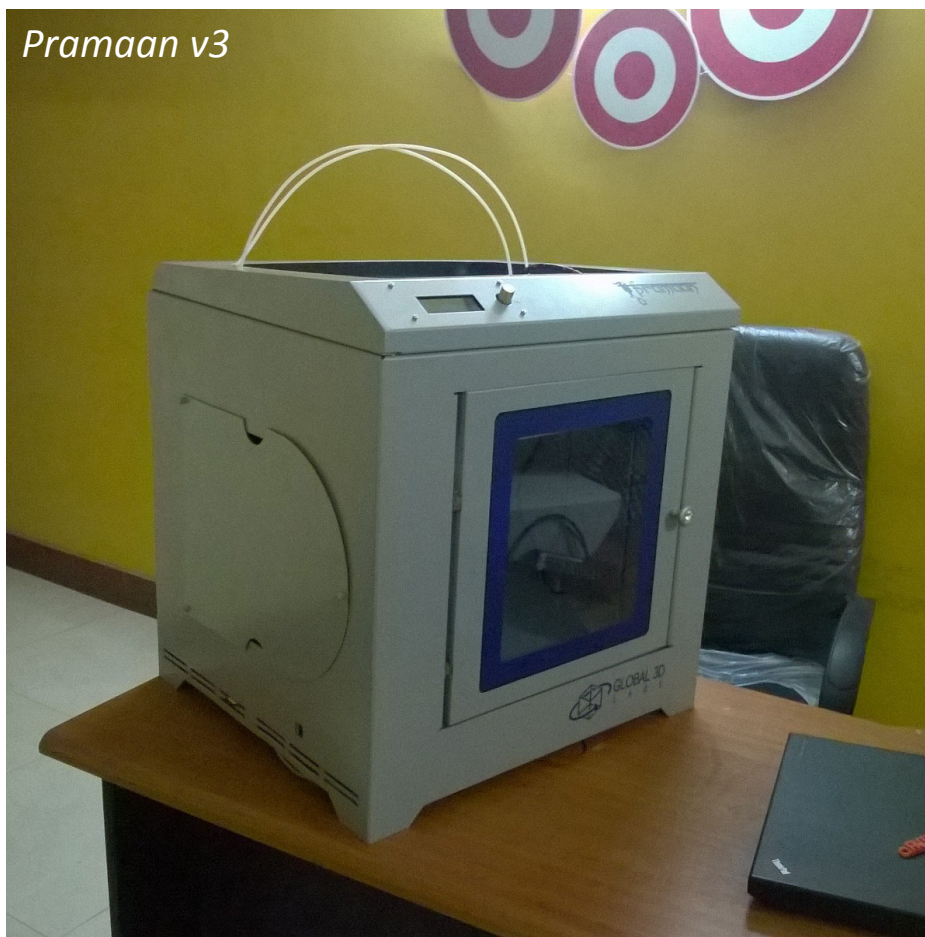 the final machine tooling is done. 3D Printers have a very wide application in creating educational models which can be used to clarify complicated concepts to students in a lucid manner.

Pramaan Range of Printers

The Pramaan range of 3D Printers are latest generation Rapid Prototyping machines designed for multiple users and sturdy usage. The 3D Printers have Ethernet, Cloud, LCD support and SD card connectivity that allow them to be independent systems. The printers have build volumes ranging from $5832cm^3$ to $27000cm^3$ that allow the users to build multiple and bigger parts in a single print.
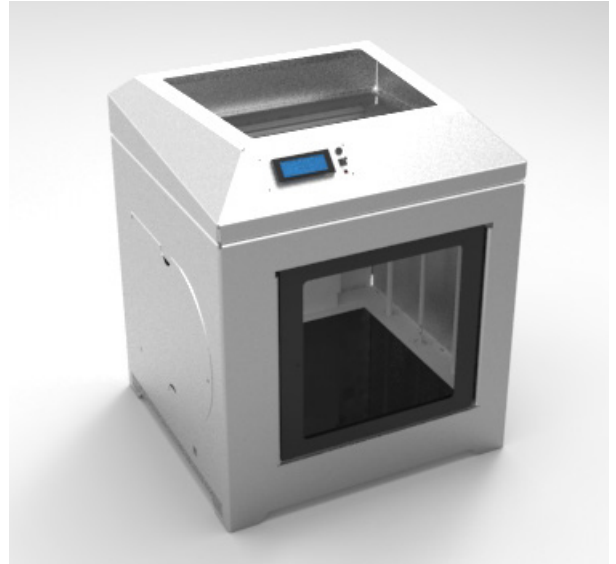
Pramaan range of printers can be used with ABS, PLA, Laywood, HIPS Polymer, Nylon 618 and many other materials. Pramaan 3D printers can be used to print multiple designs that can be both downloaded from the internet as well as designed by the user. Pramaan can be used with various 3D Printing software that are available for free download.

Pramaan v3

Our Products

PRAMAAN v3

Pramaan v3 is one of the most advanced 3D printers available globally. It is a Dual Nozzle printer with a build volume of 25x25x25 cm3 and is capable of printing with the conventional materials like ABS & PLA, exquisite materials like Nylon, Flex & metal fills and water soluble support like PVA. It boasts of cloud connectivity and hence can be used wirelessly. With its on board camera one can get a live feed of the printing process. Connectivity options include Wifi, Cloud, SD card and USB.

Technical Specifications

Mechanical
- Build: Powder Coated Mild Steel
- Product Footprint: 56.5cm x 52.0 cm x 62.5 cm
- Available Colors: Silver, Black

Printing
- Maximum Object Build Volume: 25cmx 25 cm x 25 cm
- Filament Type: Open Source
- Filament Diameter: 1.75 mm
- Printable Materials: PLA, ABS, Nylon, Flex, HIPS, PVA, Metal Fills etc.

- Hotend : E3D v6 Full Metal Hotend
- Nozzle Type: Hardened Steel
- Nozzle Diameter: 0.4/0.3/0.25 mm
- Bed Leveling: Automatic
- Bed Type: Heated Platform
- Number of Nozzles: 2
- Filament Storage :Inside the Printer
- Layer Resolution: Upto 20 microns

Connectivity
- Cloud
- USB
- SD Card
- WiFi
- Ethernet

Electrical

- Power Source: SMPS/ATX Power Supply 450 Watt
- Input Voltage: 240V AC 50 Hz

Software

- Open Source (Slic3r, Cura, Kisslicer, Repetier Host etc.)
- File Type: STL, OBJ, DAE/AMF
- OS: Windows/Mac/Linux

Speed and Precision:

- Print Speed: 30-300 mm/s
- Travel Speed: 30-300mm/s
- Precision: 12.5/12.5/5 Microns

Layer Resolution:

- Ultra-Fast: 300 Microns
- Fast: 200 Microns
- Normal: 100 Microns
- High: 60 Microns
- Ultra-High: 40 Microns

Support and Warranty

- Warranty: 1 Year on all electronics and parts
- Customer Support: Free for 1 year (First one month on-site free/1 year online)

- Delivery Type and Installation: In person by our Engineers
- 1 Day Training free

In the Box

- 3D Printer
- 1 kg of filament (colors as per stock)
- 1 Allen Key Set
- 1 Roll of Kapton Tape
- Cutting Pliers
- 1 Glue Stick
- 1 Power cord
- 1 USB Cable

Statistics

- Printer will give monthly statistics on filament usage, Printer up time, Printer power usage etc.

Our Products

PRAMAAN v2.0+

Pramaan v2.0+ is a Single Nozzle printer with a build volume of 30x30x30 cm^3 and is capable of printing with the conventional materials like ABS & PLA, exquisite materials like Nylon, Flex & metal fills. It boasts of cloud connectivity and hence can be used wirelessly. With its on board camera one can get a live feed of the printing process. Connectivity options include Wifi, Cloud, SD card and USB.

Technical Specifications

Mechanical
- Build: Powder Coated Mild Steel
- Product Footprint: 53x57x60 cm^3
- Available Colors: Black

Printing
- Maximum Object Build Volume: 30cmx 30 cm x 30 cm
- Filament Type: Open Source
- Filament Diameter: 1.75 mm
- Printable Materials: PLA, ABS, Nylon, Flex, HIPS, PVA, Metal Fills etc.
- Hotend : E3D v6 Full Metal Hotend

- Nozzle Type: Hardened Steel
- Nozzle Diameter: 0.4/0.3/0.25 mm
- Bed Leveling: Automatic
- Bed Type: Heated Platform
- Number of Nozzles: 1
- Filament Storage :External holder
- Layer Resolution: Upto 20 microns

Connectivity
- Cloud
- USB
- SD Card
- WiFi
- Ethernet

Electrical

- Power Source: SMPS/ATX Power Supply 450 Watt
- Input Voltage: 240V AC 50 Hz

Software

- Open Source (Slic3r, Cura, Kisslicer, Repetier Host etc.)
- File Type: STL, OBJ, DAE/AMF
- OS: Windows/Mac/Linux

Speed and Precision:

- Print Speed: 30-300 mm/s
- Travel Speed: 30-300mm/s
- Precision: 12.5/12.5/5 Microns

Layer Resolution:

- Ultra-Fast: 300 Microns
- Fast: 200 Microns
- Normal: 100 Microns
- High: 60 Microns
- Ultra-High: 40 Microns

Support and Warranty

- Warranty: 1 Year on all electronics and parts
- Customer Support: Free for 1 year (First one month on-site free/1 year online)
- Delivery Type and Installation: In person by our Engineers
- 1 Day Training free

In the Box

- 3D Printer
- 1 kg of filament (colors as per stock)
- 1 Allen Key Set
- 1 Roll of Kapton Tape
- Cutting Pliers
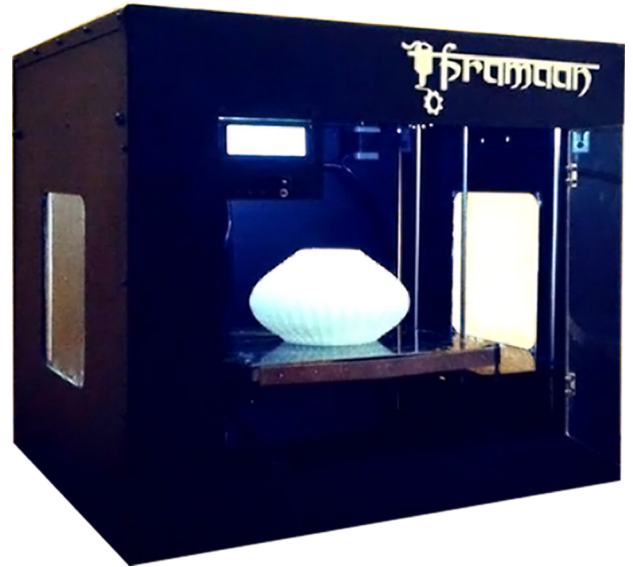- 1 Glue Stick
- 1 Power cord
- 1 USB Cable

Statistics

- Printer will give monthly statistics on filament usage, Printer up time, Printer power usage etc.

Our Products

PRAMAAN v2

Pramaan v2 is a rugged, reliable and easy to use 3D Printer. It is a Single Nozzle printer with a build volume of 30x30x30 cm^3 and is capable of printing with the conventional materials like ABS & PLA, exquisite materials like Nylon, Flex & Metal Fills. Connectivity options include SD Card and USB.

Technical Specifications

Mechanical

- Build: Powder Coated Mild Steel
- Product Footprint: 53x57x60 cm^3
- Available Colors: Black

Printing

- Maximum Object Build Volume: 30cmx 30 cm x 30 cm
- Filament Type: Open Source
- Filament Diameter: 1.75 mm
- Printable Materials: PLA, ABS, Nylon, Flex, HIPS, PVA, Metal Fills etc.
- Hotend : E3D v6 Full Metal Hotend

- Nozzle Type: Hardened Steel
- Nozzle Diameter: 0.4/0.3/0.25 mm
- Bed Leveling: Automatic
- Bed Type: Heated Platform
- Number of Nozzles: 1
- Filament Storage :External holder
- Layer Resolution: Upto 100 microns

Connectivity

- USB
- SD Card

Electrical

- Power Source: SMPS/ATX Power Supply 450 Watt

- Input Voltage: 240V AC 50 Hz

Software
- Open Source (Slic3r, Cura, Kisslicer, Repetier Host etc.)
- File Type: STL, OBJ, DAE/AMF
- OS: Windows/Mac/Linux

Speed and Precision:
- Print Speed: 30-200 mm/s
- Travel Speed: 30-200mm/s
- Precision: 12.5/12.5/5 Microns

Layer Resolution:
- Ultra-Fast: 300 Microns
- Fast: 200 Microns
- Normal: 100 Microns

Support and Warranty
- Warranty: 1 Year on all electronics and parts
- Customer Support: Free for 1 year (First one month on-site free/1 year online)
- Delivery Type and Installation: In person by our Engineers
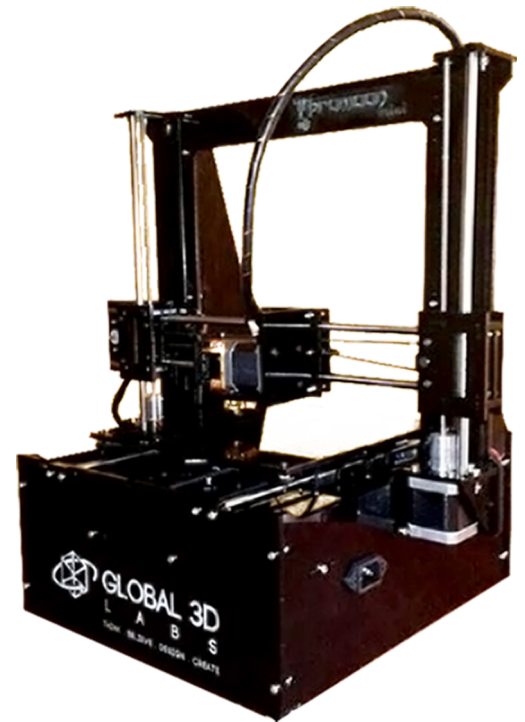- 1 Day Training free

In the Box
- 3D Printer
- 1 kg of filament (colors as per stock)
- 1 Allen Key Set
- 1 Roll of Kapton Tape
- Cutting Pliers
- 1 Glue Stick
- 1 Power cord
- 1 USB Cable

Our Products

PRAMAAN MINI

Pramaan Mini is based on a Prusa i3 open source design. It has been highly modified to be more professional, reliable and intelligent. It is a single nozzle printer with a build volume of 18 x 18 x18 cm3 and is ideal for makers and people starting with 3D Printing.

Technical Specifications

Mechanical
- Build: Acrylic
- Product Footprint: 47 x 35 x 47cm^3
- Available Colors: Black

Printing
- Maximum Object Build Volume: 18cm x 18 cm x 18 cm
- Filament Type: Open Source
- Filament Diameter: 1.75 mm
- Printable Materials: PLA, ABS, Nylon, Flex, HIPS, PVA, Metal Fills etc.
- Hotend : E3D v6 Full Metal Hotend

- Nozzle Type: Brass
- Nozzle Diameter: 0.4
- Bed Leveling: Automatic
- Bed Type: Heated Platform
- Number of Nozzles: 1
- Filament Storage :N/A
- Layer Resolution: Upto 100 microns

Connectivity
- USB
- SD Card

Electrical
- Power Source: SMPS/ATX Power Supply 450 Watt

- Input Voltage: 240V AC 50 Hz

Software

- Open Source (Slic3r, Cura, Kisslicer, Repetier Host etc.)
- File Type: STL, OBJ, DAE/AMF
- OS: Windows/Mac/Linux

Speed and Precision:

- Print Speed: 30-200 mm/s
- Travel Speed: 30-200mm/s
- Precision: 12.5/12.5/5 Microns

Layer Resolution:

- Ultra-Fast: 300 Microns
- Fast: 200 Microns
- Normal: 100 Microns

Support and Warranty

- Warranty: 1 Year on all electronics and parts
- Customer Support: Free for 1 year (First one month on-site free/1 year online)
- Delivery Type and Installation: In person by our Engineers
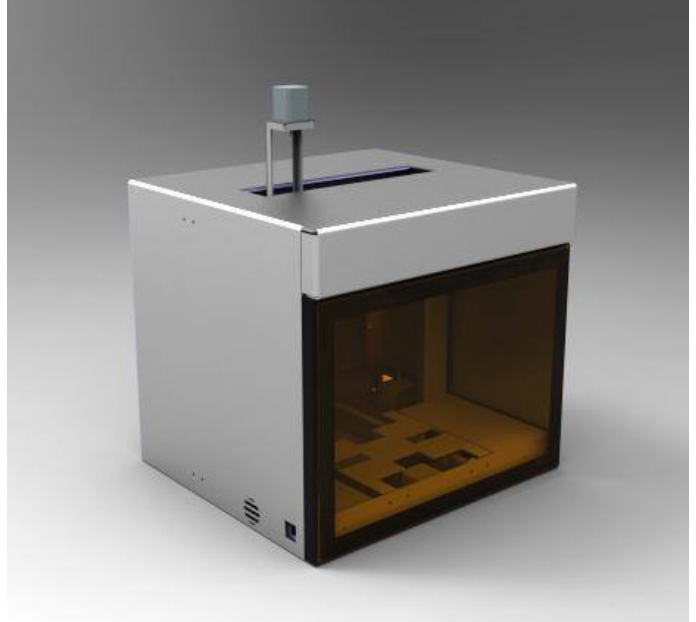- 1 Day Training free

In the Box

- 3D Printer
- 1 kg of filament (colors as per stock)
- 1 Allen Key Set
- 1 Roll of Kapton Tape
- Cutting Pliers
- 1 Glue Stick
- 1 Power cord
- 1 USB Cable

Our Products

CHOCOBOT+

Chocobot+ is 3D Printer with modular print-heads. Chocobot+ has a plastic printing head that can print with conventional plastics like ABS, PLA, Nylon, Flex, HIPS, etc. The printer also contains a modular print head kit that can be easily swapped to enable printing of different kinds of pastes like clay, ceramics, chocolate and various viscous materials.

Technical Specifications

Mechanical
- Build: Powder Coated Mild Steel
- Product Footprint: 52 x 48 x 47cm^3
- Available Colors: Black

Printing
- Maximum Object Build Volume: 25 cm x 25 cm x 25 cm
- Filament Type: Open Source
- Filament Diameter: 1.75 mm
- Printable Materials: ABS, PLA, Laywood, HIPS Polymer, Nylon 618, Chocolates, Ceramics, Clay, Viscous Liquids
- Number of Nozzles: 2 (Modular)

Plastic Printing
- Hotend : E3D v6
- Nozzle Type: Brass
- Nozzle Diameter: 0.4
- Layer Resolution : Upto 50 microns

Paste Extrusion
- Paste Extrusion Head : Disposable syringe type
- Paste Extrusion Head nozzle diameter : 1.2/0.8/0.6/0.4 mm
- Layer Resolution : Upto 500 microns

- Bed Leveling: Automatic
- Bed Type : Heated Platform
- Filament Storage :External Holder
- Paste Storage : External 5kg Vat

Connectivity

- USB
- SD Card

Electrical

- Power Source: SMPS/ATX Power Supply 450 Watt
- Input Voltage: 240V AC 50 Hz

Software

- Open Source (Slic3r, Cura, Kisslicer, Repetier Host etc.)
- File Type: STL, OBJ, DAE/AMF
- OS: Windows/Mac/Linux

Speed and Precision:

- Print Speed
  - Plastics - 30-300 mm/s
  - Paste - 20-60 mm/s
- Travel Speed: 30-300mm/s
- Precision: 12.5/12.5/5 Microns

Layer Resolution (for plastic deposition):

- Ultra-Fast: 300 Microns
- Fast: 200 Microns

- Normal: 100 Microns
- High: 50 Microns

Layer Resolution (for paste deposition):

- Fast: 800 Microns
- Normal: 600 Microns
- High: 500 Microns

Support and Warranty

- Warranty: 1 Year on all electronics and parts
- Customer Support: Free for 1 year (First one month on-site free/1 year online)
- Delivery Type and Installation: In person by our Engineers
- 1 Day Training free

In the Box

- 3D Printer
- 1 Paste Extrusion Modular Head
- 5 kg of clay
- 1 kg of filament (colors as per stock)
- 1 Allen Key Set
- 1 Roll of Kapton Tape
- Cutting Pliers
- 1 Glue Stick
- 1 Power cord
- 1 USB Cable

Our Clients

Featured at

3D PRINTING INDUSTRY

THE TIMES OF INDIA

Smartprinting.co
Print the Future with 3D Printing

3D Printing magazine

THE ECONOMIC TIMES

Microfabricator

YOUR STORY | INSPIRE INNOVATE IGNITE

CNBC

Get In Touch

f Sas 3d spark pvt ltd

🐦 @sas3dspark

contactus@sas3dspark.com

SAS 3D SPARK PVT LTD

All Dimensions covered