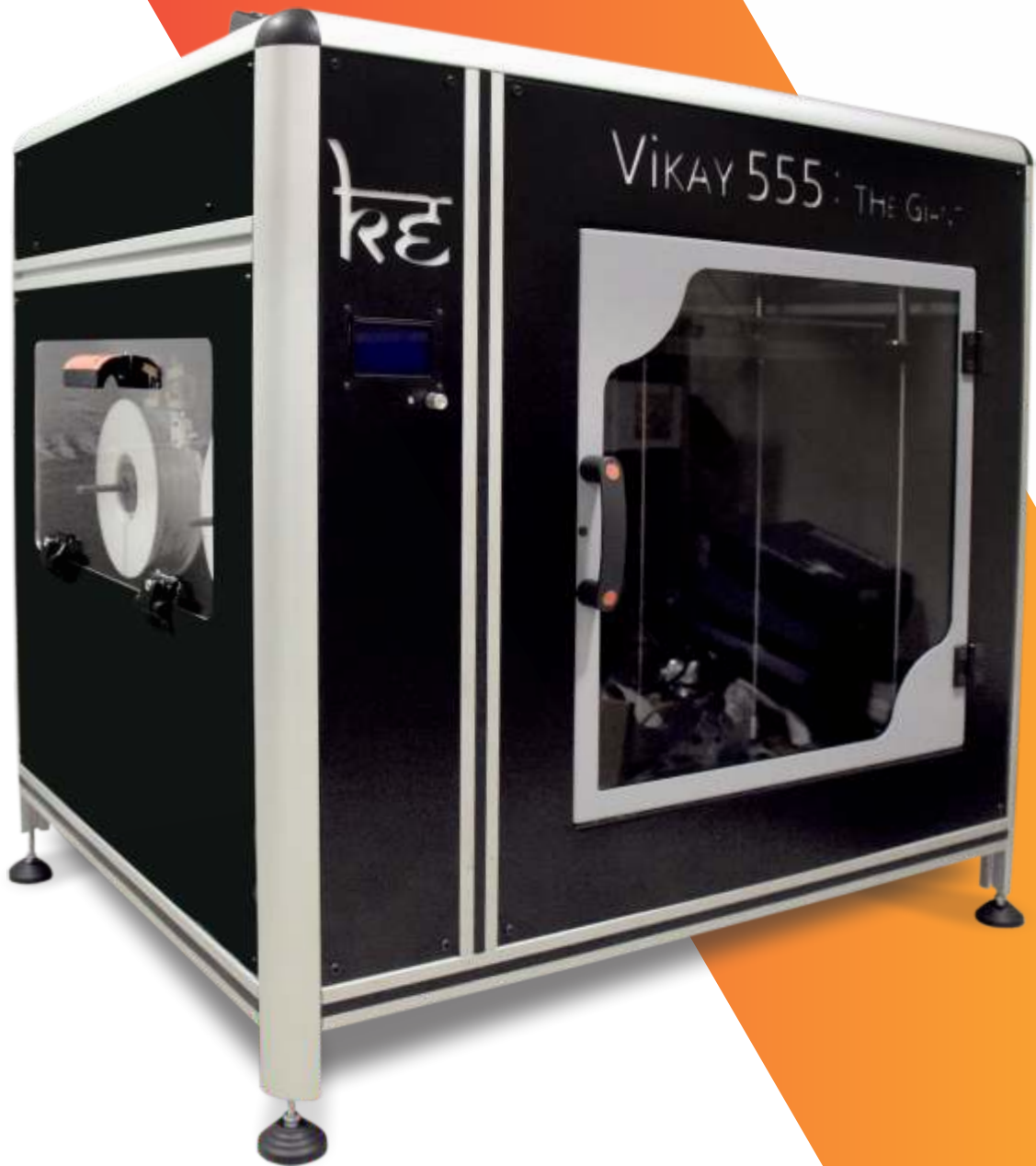


# Revolutionary 3D Printing Solutions



**Research &  
Development**

**Engineering  
Applications**

**Education**

**3D Printing  
Services**

# About Krishna Engineering

Creating novelty in engineering and serving the humankind is our primary objective. In an effort to render this, Krishna Engineering was established a decade ago with its origin in machining of metals. Since, The Company has grown into a full-fledged engineering design, simulation and manufacturing entity as one stop solution. We have a team of well qualified B.Techs, specialized M.Techs & Phds. Krishna engineering had already realized and expertise in products such as 3D printers, Bending machines, Textile machineries, CNC machines and other Special purpose machines catering to various industrial needs.

## Vision

To Develop Technological Expertise in the field of Engineering and innovate into unique products which could help the humankind realize their dreams and make our planet a sustainable one and take engineering solutions to the grass roots of the society.



## Our Products

### VIKAY 555 THE GIANT

This machine is the best in class in size and quality. It delivers you a complete build volume in a perfect finish and precision.

**500MM X 500MM X 500MM**

### VIKAY 444 THE ADEPT

Adept is the mid size printer of KE brand. It is a perfect choice for you to get good price benefit for relatively good build volume.

**400MM X 400MM X 400MM**

KE is one of the pioneers in the technology of developing 3D printers.

**250MM X 250MM X 250MM**

As the name indicates Agile is your desktop partner to print most of your micro parts but with good finish and precision.

### VIKAY 222 THE AGILE

**200MM X 200MM X 200MM**

Micro is one of the routine printer. It caters to most of your day to day needs be at small factory, a shop, a laboratory or at a home.

### VIKAY 222 THE MICRO

## Our Esteemed Clients

Indian Space  
Research  
Organisation

Central Institute of  
Plastics Engineering  
& Technology



Institute for  
Plasma Research





This machine is the best in class in size and quality. It delivers you a complete 500x500x500 build volume in a perfect finish and precision. Right choice for your industrial applications particularly if you are looking mould of casting, large functional parts and of course for all your day to day applications.

# VIKAY 555 THE GIANT

(500MM X 500MM X 500MM)

## SPECIFICATIONS

### General

Build volume with both nozzles	500 mm x 500 mm x 500 mm
Dimensions of body (X,Y,Z)	1000mm x 810mm x 1000 mm
Weight	Within 125 kg

### Printer Properties

Print technology	Fused Deposition Modeling (FDM)
Nozzle temperature	up to 300 °C
Build plate	Aluminum heat bed with glass top
Build plate temperature	up to 120 °C
Nozzle diameter	0.4 mm (standard) and 0.25, 0.6, 0.8 mm (customizable)
Nozzle heat up time	< 2 min
Build plate heat up time	< 4 min from 20 °C to 60 °C
Operating sound	50 dBA

### Printing Properties

Print speed	< 24 mm <sup>3</sup> /s
X,Y,Z resolution	12.65, 12.65, 1.25 micron
Layer resolution	<b>0.4 mm Nozzle: 40 – 300 micron</b> 0.25 mm Nozzle: 40 – 200 micron 0.6 mm Nozzle: 40 – 400 micron 0.8 mm Nozzle: 40 – 600 micron
Surface roughness	Ra: < 4.5 micron, Rq: < 6 micron

### Materials

Feed material type	Filament
Filament diameter	1.75 mm
Supported materials	ABS, PLA, HIPS, PP, PC, Nylon, PETG PVA and many more.

### Software and connectivity

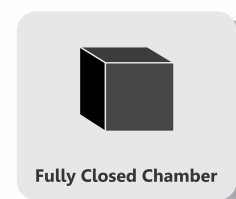
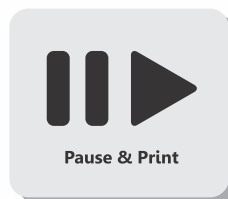
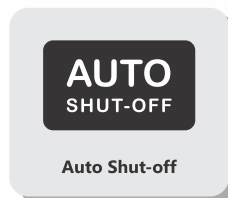
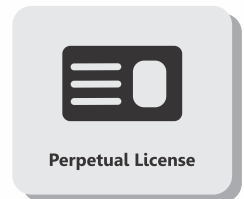
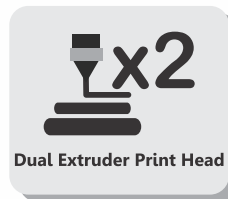
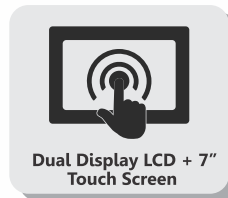
Preprocessing package	Single user perpetual license
Supported file types	STL, OBJ
Supported OS	Windows
File transfer	Wi-Fi, USB, SD Card, LAN

### Service and support

Training	1 day of extensive training by experts
Warranty	12 months
Life time support	via email or phone
Extended support	Detailed user manual

### Electrical Specifications

Power Requirement	220 V AC Single Phase 6A
Power Consumption	1800 W(Maximum when heat bed is used)



### Mechanical Specifications

XY Mechanism	Precise H Belt Mechanism on LM guide
Z Mechanism	Ball Screw
Chassis	Powder coated aluminum, Ms sheet metal & standard aluminum profile

Adept is the mid size printer of KE brand. It is a perfect choice for you to get good price benefit for relatively good build volume. It fits into most of your regular day applications and industrial needs. Small scale industries can reap benefits with its pricing and making the products economical.



## VIKAY 444 THE ADEPT

(400MM X 400MM X 400MM)

### SPECIFICATIONS

#### General

Build volume	400 mm x 400 mm x 400 mm
Dimensions of body (X,Y,Z)	860mm x 660mm x 880 mm
Weight	Within 100 kg

#### Printer Properties

Print technology	Fused Deposition Modeling (FDM)
Nozzle temperature	up to 300 °C
Build plate	Aluminum heat bed with glass top
Build plate temperature	up to 120 °C
Nozzle diameter	0.4 mm (standard) and 0.25, 0.6, 0.8 mm (customizable)
Nozzle heat up time	< 2 min
Build plate heat up time	< 4 min from 20 °C to 60 °C
Operating sound	50 dBA

#### Printing Properties

Print speed	< 24 mm <sup>3</sup> /s
X,Y,Z resolution	12.65, 12.65, 1 micron
Layer resolution	<b>0.4 mm Nozzle: 40 – 300 micron</b> 0.25 mm Nozzle: 40 – 200 micron 0.6 mm Nozzle: 40 – 400 micron 0.8 mm Nozzle: 40 – 600 micron
Surface roughness	Ra: < 4.5 micron, Rq: < 6 micron

#### Materials

Feed material type	Filament
Filament diameter	1.75 mm
Supported materials	ABS, PLA, HIPS, PP, PC, Nylon, PETG PVA and many more.

#### Software and connectivity

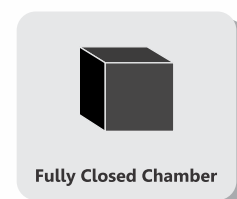
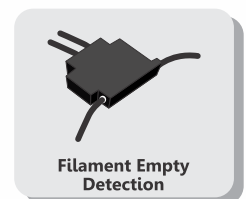
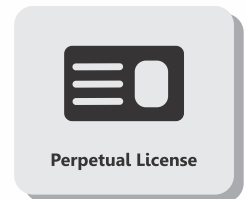
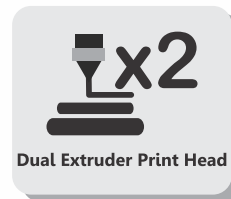
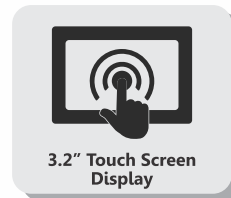
Preprocessing package	Single user perpetual license
Supported file types	STL, OBJ
Supported OS	Windows
File transfer	Wi-Fi, USB, SD Card, LAN

#### Service and support

Training	1 day of extensive training by experts
Warranty	12 months
Life time support	via email or phone
Extended support	Detailed user manual

#### Electrical Specifications

Power Requirement	220 V AC Single Phase 6A
Power Consumption	1800 W(Maximum when heat bed is used)



#### Mechanical Specifications

XY Mechanism	Precise H Belt Mechanism on LM guide
Z Mechanism	Ball Screw
Chassis	Powder coated aluminum, Ms sheet metal & standard aluminum profile



As the name indicates Agile is your desktop partner to print most of your micro parts but with good finish and precision. A right choice for your laboratory, educational institutions, electronic casings, enclosures, gifts, decorative items and of course functional parts. It is an all affordable machine and perfect choice for beginners, novices and people interested to Innovate into 3D printing parts.

# VIKAY 222 THE AGILE

(250MM X 250MM X 250MM)

## SPECIFICATIONS

### General

Build volume	250 mm x 250 mm x 250 mm
Dimensions of body (X,Y,Z)	485mm x 510mm x 500 mm
Weight	Within 40 kg

### Printer Properties

Print technology	Fused Deposition Modeling (FDM)
Nozzle temperature	up to 300 °C
Build plate	Aluminum heat bed with glass top
Build plate temperature	up to 120 °C
Nozzle diameter	0.4 mm (standard) and 0.25, 0.6, 0.8 mm (customizable)
Nozzle heat up time	< 2 min
Build plate heat up time	< 4 min from 20 °C to 60 °C
Operating sound	50 dBA

### Printing Properties

Print speed	< 24 mm <sup>3</sup> /s
X,Y,Z resolution	2, 2, 1 micron
Layer resolution	<b>0.4 mm Nozzle: 40 – 300 micron</b> 0.25 mm Nozzle: 40 – 200 micron 0.6 mm Nozzle: 40 – 400 micron 0.8 mm Nozzle: 40 – 600 micron
Surface roughness	Ra: < 4.5 micron, Rq: < 6 micron

### Materials

Feed material type	Filament
Filament diameter	1.75 mm
Supported materials	ABS, PLA, HIPS, PP, PC, Nylon, PETG PVA and many more.

### Software and connectivity

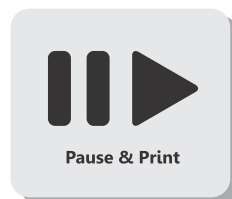
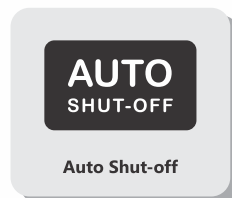
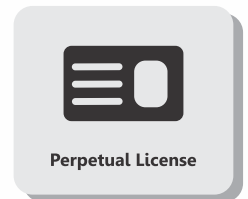
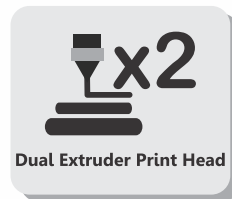
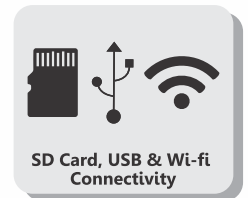
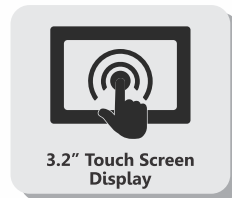
Preprocessing package	Single user perpetual license
Supported file types	STL, OBJ
Supported OS	Windows
File transfer	Wi-Fi, USB, SD Card, LAN

### Service and support

Training	1 day of extensive training by experts
Warranty	06 months
Life time support	via email or phone
Extended support	Detailed user manual

### Electrical Specifications

Power Requirement	220 V AC Single Phase 6A
Power Consumption	350 Watts



### Mechanical Specifications

XY Mechanism	Precise H Belt Mechanism on LM guide
Z Mechanism	Lead Screw
Chassis	Powder Coated MS Sheet Metal



**VIKAY 222 THE MICRO**  
(200MM X 200MM X 200MM)



**DELTA PRINTER**  
(100MM X 100MM X 100MM)

<b>Printer &amp; Printing Properties :-</b>	
Build Volume	200mm X 200mm X 200mm
Technology	FDM (Fused Deposition Modeling)
Printing Material	ABS & PLA
Nozzle	Single
Nozzle Diameter	0.4 mm
Nozzle Temperature	260 °C
Build Plate	Heated glass build plate
Filament Diameter	1.75 mm (Standard)
Operating ambient temperature	15 - 32 °C
Connectivity	USB
Supported File Types	STL
Supported OS	Windows
Pre -Processing Software	Openware
Training	03 Hours training

<b>Mechanical Specifications :</b>	
<b>XYMechanism</b>	Precise Hbelt Mechanism on LM Shaft
<b>ZMechanism</b>	Lead Screw
<b>Chassis</b>	Open Chamber with aluminum profile

<b>Electrical Specifications : -</b>	
<b>Power Requirement</b>	220 V AC , Single Phase 6A
<b>Power Consumption</b>	240 Watts

<b>Printer &amp; Printing Properties :-</b>	
Build Volume	100mm X 100mm X 100mm
Technology	FDM (Fused Deposition Modeling)
Recomanded Printing Material	PLA
Nozzle	Single
Nozzle Diameter	0.4 mm
Nozzle Temperature	260 °C
Build Plate	Acrylic sheet
Filament Diameter	1.75 mm (Standard)
Operating ambient temperature	15 - 32 °C
Connectivity	USB
Supported File Types	STL
Supported OS	Windows
Pre -Processing Software	Openware
Training	03 Hours training

<b>Mechanical Specifications :</b>	
<b>Mechanism</b>	Delta mechanism, Belt-pulley&LM guides
<b>Chassis</b>	Aluminum profiles & Printed parts

<b>Electrical Specifications : -</b>	
<b>Power Requirement</b>	220 V AC , Single Phase 6A
<b>Power Consumption</b>	120 Watts

3D printing is a process of depositing fused material layer by layer as per the contour ,shape & volume as communicated by software program through G codes. 3D printing solutions have now penetrated deeply into almost all engineering disciplinary, including medical, architectural, constructions, food, education, toys, house hold items, applied human science, art ,natural science, biomedical science, Agricultural science etc.

We can offer you a wide variety of 3D machines right from the lowest size of 100x100x100mm to 1.5x1.5x1.5m of giant sizes,which can print a variety of materials to meet your range of requirement in all the domains. All the machines are the state-of-the art, highly cost competitive, best in their class and highly customizable as per your requirements. These machines can presently print a variety of plastic materials like ABS, PLA, HIPS, PP, PC, Nylon, PETG, ASA, TPU/TPE, PVA and many more.

**"You ask for it and we can make it for you."**

We can make customised machines that can print materials such as Ultem, PEEK, Carbon fibre etc. These materialsdemands for specialised design of 3D printer due to requirement of heated chamber and wear resistant nozzle. Given an opportunity we will explore the opportunity to tune the materials of your choice into our machine.

## AREAS OF USE



**MOLDING**



**FOUNDRY**



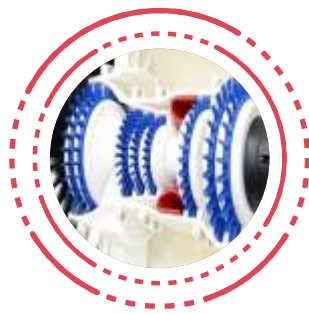
**DEFENSE**



**MEDICAL**



**AUTO MOBILE**



**AERO SPACE**



**SANITARY**



**ARCHITECTURE**



**ROBOTICS**



**FMCG**



**PLASTIC**



**DECORATION**

## Get Your 3D Object Printed in 3 easy steps.



Visit our website  
[www.krishna-engineering.com](http://www.krishna-engineering.com)



Upload your .STL file  
or Mail your request on  
[3dprint@krishna-engineering.com](mailto:3dprint@krishna-engineering.com)



Get your 3D print  
in 24 hours.\*

\*Charges are applicable



## Get In Touch @

**ADDRESS:** 6, SHRAMJIVI ESTATE, BEHIND RAMDEVPIR TEMPLE, NEAR RAJENDRA PARK CROSS ROAD, RAKHIYAL, AHMEDABAD-380023, GUJARAT, INDIA

**CALL US:** +91-87330 86859

**E-MAIL:** [www.krishna-engineering.com](http://www.krishna-engineering.com) | [info@krishna-engineering.com](mailto:info@krishna-engineering.com)

**Channel Partner**