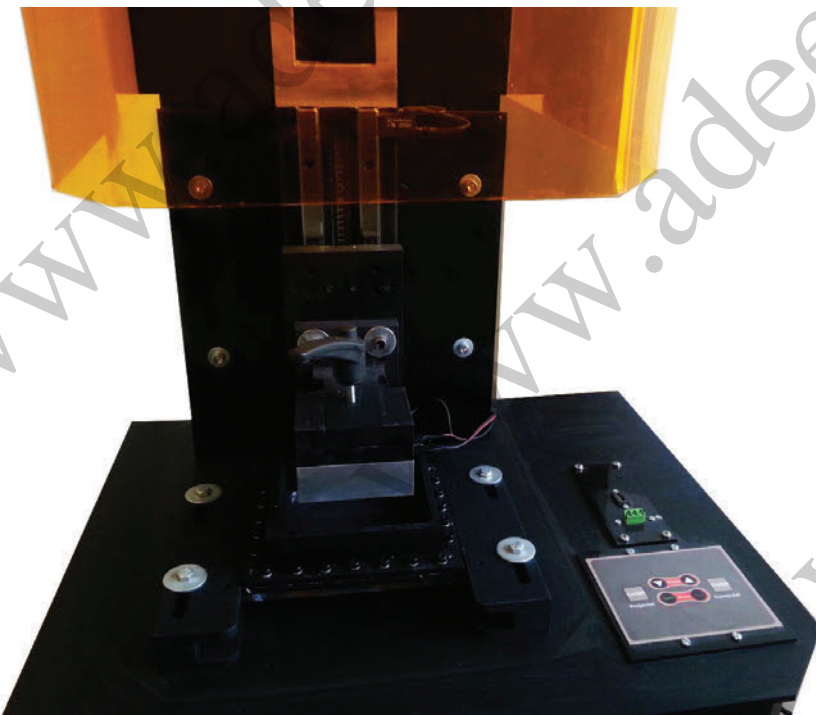


3D Printers

Nowadays, 3D printing is known as an economic process of yielding prototypes with a maximum production rate. It is a process of making three dimensional solid objects from a digital file, for instance a CAD (Computer Aided Design). You will have to slice your 3D model before it is ready to be 3D printed which means dividing it into hundreds to thousands of horizontal layers by a software. When the 3D model is sliced, you can upload your file, then the object is ready to be 3D printed layer by layer. The 3D printer reads each slice (2D image) and creates a three dimensional object.

Stereolithography (SLA) and Digital Light Processing (DLP) are considered as the most applicable methods of 3D printing. Both of the processes are based on curing the photopolymer resins by subjecting it into an intense light and the major difference is their light source. The main point about mentioned 3D printing processes is that they require support structures for some parts, specifically those with overhangs or undercuts. Using these processes, one would be able to produce highly accurate parts with excellent surface finish.

Adeeco Company offers several high technology models of 3D printers which are suitable for high accurate activities.

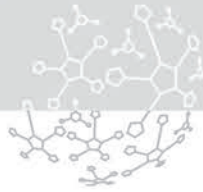


Application

- Automotive industry
- Medical industry
- Aerospace & aviation industries
- Jewelries
- Decoration
- Toys

Advantages

Stereolithography (SLA)	Digital light processing (DLP)
excellent surface finish	Higher resolution
most accurate 3d printing process	Less running time (faster than SLA)
	less waste
	lower running costs



Specifications

Model	Pro	Economic	Microtech	SLA
Print technology	DLP	DLP	DLP	SLA
Build envelope (cm)	19.2×10.8×20	8×6×10	3×2×10	14.5×10×20
Machine dimensions (cm)	50×37×150	50×37×70	50×37×100	50×37×160
Projector resolution	1920×1080	1024×768	1024×768	Galvo scanning system
Lateral resolution (μm)	100	50-80	10-30	150
Layer Thickness (μm)	12.5	25	6.25	100
Sidelong computer	Yes	Yes	Yes	Yes
Weight (Kg)	50	35	40	50
Material	UV cure resin	UV cure resin	UV cure resin	UV cure resin
UV source	UV Lamp	UV Lamp	UV Lamp	Laser

