

Print Various Softness from earlobe to hard plastic

NEW

M3DS-SA5



- The Industry's First Ultra Soft / Flex Resin Printing (Up to Shore Hardness Scale A2)
- Suitable for Professional Research and Product Development
- High Resolution Print
- Small Amount of Resin is Required

Specifications	M3DS-SA5
Maximum printing size (X × Y × Z mm)	150 × 100 × 180
Layer thickness (mm)	0.025, 0.05 (Switched by software)
X Y resolution (mm)	0.15
Maximum printing speed (mm/h)	20 (with layer thickness of 0.05mm)
Printing direction	Bottom up
Available Materials	Shore A25 Rebounding Resin Shore A2, A5, A13, A50 Rubber-like Resin Heat-resistant Acrylic Resin Conductive Rubber-Like Resin
Light source	LED & laser hybrid over 8mW/ cm ² 3000 lumen
Machine dimensions (W × D × H mm)	620 × 500 × 1140 (including caster)
Machine weight (kg)	50
Power supply / Power consumption	AC100V 50/60Hz 500W
Note	Adjustable coater speed

Features

Soft / Flex Resin Printing

The unique printing mechanism enables 3D printing of Shore Hardness Scale A2. MITS M3DS-SA5 is the only 3D printer covers printing with various hardness from hard plastic-like to soft skin-like.

High resolution printing

With fine layer thickness, inclined surface or curved surface can be printed very smoothly.

High speed printing

MITS M3DS-SA5 is DLP 3D printer using projector. Unlike laser scanning or FDM, one layer is printed as one face at a time. Therefore, no matter what the size of the objects, or number of objects to be printed, printing speed is same and fast. Print time is easily calculated.

Small amount of resin is required

While most of stereolithographic 3D printers require large amount of resin to be put into resin pool, M3DS-SA5 requires small amount of resin. (M3DS-SA5: 350cc)

Mixing two resin with different hardness

Different resins can be mixed each other. Changing the mixture ratio can provide any range of softness as you like.

Easy Maintenance

Simple machine structure enables users to maintain the machine by themselves very easily.

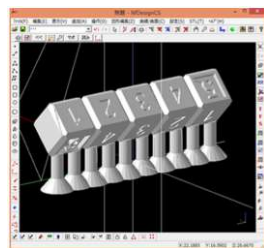
Software

Slicer software included: **NF Design CS**

This software generates horizontal slices that is required for 3D printing, by cutting 3D model that is created by 3D CAD software.

Major Functionalities

- 1.Importing STL data
- 2.Creating support structure: Support structures are created based on the locations specified by a mouse.
- 3.Export slice data



NF Design CS

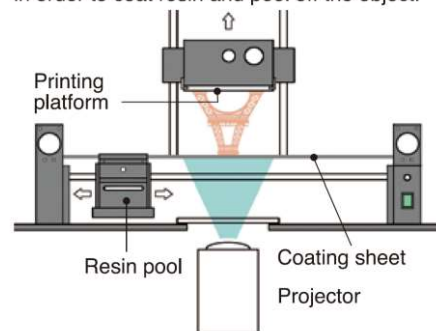
More functionalities such as STL editing commands.

Software to operate machine is also included

Control software with easy settings for parameter for exposure. Exposure time varies depending on types of resin as well colors. With this software, you can set suitable exposure time for the material to be used.

M3DS printing mechanism / Coater system

Before curing, resin for one layer is coated on the coating sheet. The projector radiates image for the layer and the layer is cured. The next step is peeling which the cured resin is peeled off the sheet. Lifting platform, coating resin, curing and peeling. These process is repeated until print is finished. Resin pool is moving left and right during print in order to coat resin and peel off the object.



Specifications and product details are subject to change without notice.