**SPECIFICATIONS**

**Print size X: 50cm Y: 50cm Z: 1cm = 2,500cm³**

- **Print mode**
  - Fast: 8:17h
  - Standard: 9:41h
  - High Quality: 13:12h

- **Layer thickness**
  - 42µm
  - 32µm
  - 19µm

- **Resolution**
  - 600x300x600
  - 600x300x800
  - 600x300x1,270

**Print size X: 5cm Y: 50cm Z: 1cm = 250cm³**

- **Print mode**
  - Fast: 1:30h
  - Standard: 1:45h
  - High Quality: 2:24h

- **Layer thickness**
  - 42µm
  - 32µm
  - 19µm

- **Resolution**
  - 600x300x600
  - 600x300x800
  - 600x300x1,270

**Print speeds**

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<th>Print size X: 50cm Y: 50cm Z: 1cm = 2,500cm³</th>
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<tr>
<td>Width</td>
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**SUPPLIES**

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**OPTIONS**

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Some of the samples in this folder are artificial renderings. Specifications, design and dimensions stated in this folder may be subject to change without notice (for technical improvements, etc.). The corporate and merchandise names written on this folder are the trademark of the respective corporations. Inkjet printers print using extreme fine dots, so colours may vary after replacement of the printing heads, also note that if using multiple printer units, colours could vary slightly from one unit to other unit due to slight individual differences. Compositor’s errors reserved.

Operation time before and after printing is not considered. Print time is calculated using 3D Link.
Print with over 10 million colours
The Mimaki 3DU-553 offers the world’s first 3D modelling with over 10 million different colours, covering approximately 84% of FOGRA39L and 90% of SWOP colour gamut with layer thickness as fine as 19μm. The machine produces 3D models with smooth surfaces and impressive details.

Photo-realistic colour accuracy
Mimaki’s 3DU-Link software allows our output ICC profile to print highly accurate colours. At the same time, designers can use this ICC profile in Photoshop’s proofing environment or scan a colour adjustment to try seeing the real-world accuracy of their models.

More possibilities with clear ink
In addition to creating transparent 3D objects, texture can be mixed with colour antennas to add transparency to the models, expanding the design possibilities of 3DU-553 even further.

Water-soluble support material
The support material can be easily removed by placing the object in water, eliminating the manual process of cutting supports and the risk of damaging the model. The removal process can be speed up by warming the water up to 35°C, creating a faster and safer process for removing the support layer.

Powerful 3D printing feature set
Unique features of the Mimaki 3DU-553 enable creative and durable realisation of objects up to 50 x 50 x 30cm.

Innovative modelling material
The Mimaki 3DU-553 uses pigmented photo-polymer resin as modelling material, allowing models to be produced up to 400μm thick. The material is also water-soluble, allowing the object to be printed in place in order to remove the support material, allowing the printing process to be conducted more efficiently.

Post-processing possibilities
Further post-processing possibilities include overcoating for better weather resistance, polishing and over-printing, which can be done immediately after the modelling process is complete.

Large maximum build size
At approximately 50 x 50 x 30cm (W x D x H), the 3DU-553 features a larger maximum build size than most comparable 3D printers.

Proven UV curable inkjet system
In the Proven UV curable inkjet system, the printer jet successive layers of ink until the object is formed, while the UV light source hardens or cures the ink after each printed layer.

Layering and colouring method
Modelling is done by simultaneously using ink and support material to print sliced data of 3D objects.

A brand-new approach to 3D printing
The Mimaki 3DU-553 is the world’s first 3D printer with over 10 million colours, enabling the production of 3D objects, eliminating time-consuming finishing and the risk of damaging small detailed parts.

STABLE PRODUCTION

Core Tech delivers unbeatable technology
Mimaki’s Core Tech delivers an unbeatable combination of stable production and cutting-edge imaging quality. Incorporating innovative proprietary technology, Core Tech offers significant advantages over existing inkjet systems.