

GDP (Gel Dispensing Printing) method 3D printer

Mimaki™

3DGD-1800

*Innovating sign graphics creation with
large-scale and high-speed 3D printing*



Max. size:

1800mm

**Large-scale
3D print**

**Unparalleled
printing speed**

Utilization of
3D data broadens
the potential for
application

Hollow objects
allowing easy
processing

*High-speed 3D printer builds objects
at 350 vertical mm/hour*

A life-size 3D object can be
completed in 7 hours.*

*object size W x L x H : 600 x 600 x 1,800 (mm)

Easily print large-sized 3D objects

Objects up to 1,800mm in height can be printed. Assembling multiple prints allows for the creation of extra-large objects, exceeding the printable area.



A life-size object is printed in 7 hours!

Max. size: 1800mm

Hollow objects allowing easy processing

The printed 3D objects are extremely light in spite of their large size because they are hollow. It is also possible to increase the strength by adding armatures and reinforcement materials to the hollowed-out interior. As the printed objects are white in color and translucent, you can also create internally illuminated signage housing LED modules and other light sources.



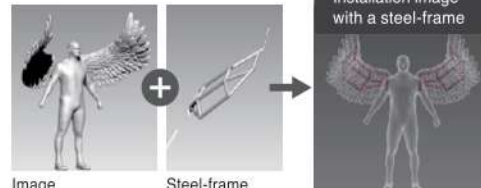
Utilization of 3D data broadens the potential for application

If you have 3D data, you can create objects in varying sizes. Unlike handcrafting, 3D printing allows you to use a 3D data to share an image of the object and its installation with the customer from the design stage.

With 3D data, objects can be printed in various sizes.



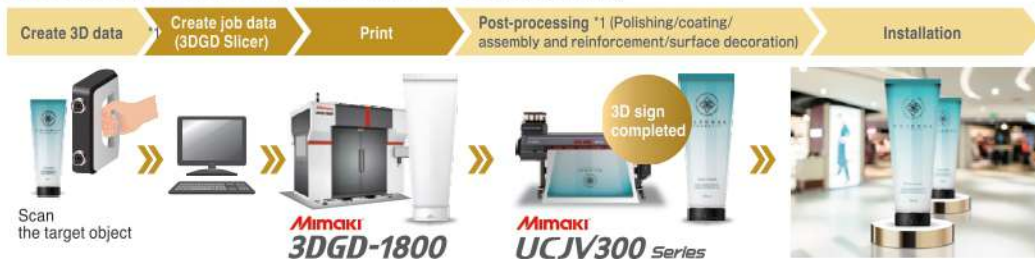
Image of the object and installation can be shared with 3D data.



Combination with Mimaki inkjet printers further expands the power of expression

Utilizing inkjet printers to apply decorative finishes to 3D objects or combining outputs of both technologies enables the production of an object with higher impact that can be used for large three-dimensional signboards, life-sized displays, creative art etc. Furthermore, combining the 3DGD-1800 with a 3D scanner, it is possible to create 3D copies of an existing object. Utilization of digital 3D data opens up the possibilities of expression.

Production processes of 3DGD-1800 and post-processing (example)



*1: Post-processing equipment sold separately

Surface imaging using Mimaki printers



What's more...

Combination of scanner and printer*2

Applications using a copy of an actual object with Scan & Print
Making copies of existing physical objects and reproducing in various sizes

Large => Small (Reduced copy)

Full-body 3D scanner
3DUJ-553



Small => Large (Enlarged copy)

Compact scanner
3DGD-1800



*2: A 3D scanner is separately required as the 3DGD-1800 does not have a scan function.

Specifications

3DGD-1800			
3D printing method	Gel Dispensing Printing / Dual print		Nozzle size (dia.)
Print head	2		1.8 mm / 2.6 mm (Replaceable)
Max. printing size	W x D x H	1,450x1,110x1,800 mm (57.1x43.7x70.9 in)	Printing speed
	Weight	150 kg (330.7 lb)	Height 350 mm/h (13.8 in/h)
Layer pitch	Normal	1.3 mm	Printing material
	Quality	1.0 mm	MG-100W (White UV curable resin)
	High resolution	0.8 mm	3D data format
			stl, obj, 3ds, ply, blend
			Slicer software
			3DGD Slicer
			Interface
			Ethernet
			Operating specifications
			Power
			3 x 25A, 380-400 VAC ±10%, 50 / 60Hz
			Air pressure
			600 to 800 kPa
			Power consumption
			10kW (Printing)
			Temperature
			16 to 30 degC. 60.8 to 86 degF.
			Outside dimensions
			W x D x H
			3,000x2,200x2,800 mm (118.1x86.6x110.2 in)
			Weight
			2,500 kg (5,511.5 lb)

Software, Supplies

Item	Code	Remark
3DGD Slicer	(TBD)	Slicer software
3D printer ink MG100	MG100-W-BS-1-RA	19 kg bottle

Precautions for 3D objects

Please make sure to execute an advanced evaluation regarding the physical property (strength, weather resistance, safety etc.) for estimated applications.

Safety notice

Ultraviolet (UV) irradiation equipment is mounted on this product. You are dealing with UV light sources that may harm your health. Please follow below guidelines strictly.
•Do not look directly into the UV light source nor place your hand, or expose your skin directly to the UV light source.
•Please make sure the room is well ventilated due to smells partially accompanying with 3D modeling.
•In addition, please be sure to read the instructions and guidelines of the manual carefully to follow.

- Some of samples in this catalog are artificial renderings.
- Specifications, design and dimensions stated in this catalog may be subject to change without notice for technical improvements etc.
- The corporate names and merchandise names written in this catalog are the trademark or registered trademark of the respective corporations.
- The specifications described in this catalog are as of July 2020.



Jugoslovenska 2, 11250 Beograd
Tel: +381 11 6581274, 6581275
www.sitotehnika.net
office@sitotehnika.net



Aerodromska 17, 71000 Sarajevo, tel: +387 33 719095, 66 002600, e-mail: sasastgraf@gmail.com
Pilanska bb, 78000 Banja Luka, tel: +387 51 305280, 66 002400, e-mail: stgrafbl@gmail.com
Lagja Kalabria pn, 10000 Priština, tel: +383 38 602080, 45 600641, e-mail: info@stgraf-ks.com
Bulevar Boris Trajkovski 112, 1000 Skopje, tel: +389 78 290996, e-mail: ace@sitotehnika.net

Pratite nas: