



ORIX Rentec Introduces German Metal 3D Printer TruPrint 1000 at 3D Printer Modelling and Prototype Verification Service Site Tokyo 3D Lab.

TOKYO, Japan - November 30, 2021 - ORIX Rentec Corporation (“ORIX Rentec”) today announced that it has introduced the metal 3D printer TruPrint 1000 manufactured by Germany-based TRUMPF GmbH + Co. KG (“TRUMPF”) at the Tokyo 3D Lab. within ORIX’s Tokyo Technology Center. Together with the EOS M 290 from Germany-based EOS GmbH (“EOS”) and Metal X from US-based Markforged, Inc. (“Markforged”), Tokyo 3D Lab. is able to conduct direct comparison verification using three 3D printers having different features.

Opened in 2015, Tokyo 3D Lab. provides a verification service that allows users to experience modeling while receiving support from ORIX Rentec’s technicians in addition to tours showing actual 3D printers. It offers an environment for verifying the introduction of the most appropriate 3D printers after understanding factors such as man hours, safety, and technological capabilities required for operation. For the introduction of 3D printers, besides the sale of actual systems, ORIX Rentec can also propose implementation that keeps initial costs down through operating leases. In addition, Tokyo 3D Lab. also offers a contract-based modeling service for complex metal shapes—such as prototypes and jigs—using data received from customers to provide implementation support services that meet a wide range of customer needs.



Tokyo 3D Lab.

The newly-added TruPrint 1000 has a compact design based on ergonomics that removes the need for demanding body positions. The touchscreen allows simple and intuitive operation. It can produce models of high accuracy using maraging steel, stainless steel, nickel-based alloys, aluminum, titanium, and pure copper^{*1}. It also adopts an open parameter specification that allows the user to configure different parameters^{*2} for each type of metal material, allowing it to handle a variety of materials.

In recent years, metal 3D printers are increasingly being used in a wide range of applications—from development and prototyping of various mechanical parts to mass production—in aerospace, automobile, electric and other industries, and there are rising expectations of them as new manufacturing methods rooted in decarbonization and resource circulation.

ORIX Rentec was established in 1976 as Japan’s first measuring instrument rental company and, since then, it has focused on providing rental services for high-tech devices. In 2015, the company commenced a 3D printer business that includes contract-based modeling service by metal and resin 3D printers. ORIX Rentec will support the research and development efforts of customers and contribute toward solving the issues faced by society and companies by applying the company’s strength in collaborating with global companies that have the latest technologies and offering major systems from several manufacturers.

*1 As the 3D printer installed at Tokyo 3D Lab. is the TruPrint 1000, pure copper—which can be handled by the TruPrint 1000 Green Edition—is outside the scope of the verification service. However, ORIX Rentec can provide contract-based modeling and rental services.

*2 Instructions that are configured for the execution of programs.

Product overview

Manufacturer: TRUMPF GmbH + Co. KG

Model: TruPrint 1000

Maximum model size: $\Phi 100 \times H100$ mm

Layer thickness: 0.01 mm – 0.05 mm

Laser: 200 W (TRUMPF fiber laser)

Beam diameter: 0.055 mm

Compatible materials (as of Nov 2021):

Maraging steel, stainless steel, nickel-based alloys, aluminum, titanium, and pure copper*

* Pure copper is handled by the TruPrint 1000 Green Edition.



TruPrint 1000

Overview of TRUMPF

Established in Germany in 1923, TRUMPF is a leading global company in the fields of sheet metal processing machines and laser technologies. The company uses its greatest strength—as the world’s only general manufacturer of sheet metal processing machines while also being a general manufacturer of laser oscillators—to support the manufacturing frontlines of customers around the world.


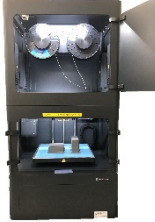

Website: https://www.trumpf.com/en_INT/

Overview of Tokyo 3D Lab.

As ORIX Rentec’s site for 3D modeling services, Tokyo 3D Lab. handles various requests from customers. Visitors can see actual metal 3D printers, printed samples, and modelling operations. It also offers a verification service for customers who are considering the introduction of metal 3D printers.

https://www.orixrentec.jp/3dprinter/about/#tokyo_3d_lab (in Japanese)

Comparison table of metal 3D printers installed at Tokyo 3D Lab. (as of November 30, 2021)

Manufacturer	TRUMPF	Markforged	EOS
Model	TruPrint 1000	Metal X	EOS M 290
Photo	New! 		
Modeling method	Powder Bed Fusion (PBF)	Atomic Diffusion Additive Manufacturing (ADAM)	Powder Bed Fusion (PBF)
Layer thickness (mm)	0.01mm - 0.05mm	0.05mm - 0.129 mm	0.02 mm - 0.05 mm
Maximum model size (mm)	Φ100×100(H)	300(W)×220(D)×180(H)	250(W)×250(D)×290(H)
Compatible materials	Maraging steel Stainless steel Nickel-based alloys Aluminum Titanium Pure copper * Modelling of pure copper is handled by the TruPrint 1000 Green Edition.	Stainless steel H13 tool steel A2 tool steel D2 tool steel Inconel 625 Copper	Maraging steel Stainless steel Nickel-based superalloys Aluminum alloys
Features	High operability using ergonomics-based design and capable of high precision modelling	Affordable price, capable of handling a wide range of materials, and can be used safely without dispersal of metal powders	High accuracy, speed, and quality capable of covering the entire range from prototypes to final products
Rental fee (excluding consumption tax): 36 months	1,341,000 yen/month	662,900 yen/month	Please inquire separately
Rental fee (excluding consumption tax): 60 months	862,100 yen/month	481,600 yen/month	
<p>* Available through operating lease agreements (product name: L Rental). Screening will be conducted for first-time customers. Requests may not be met depending on the screening results.</p> <p>* These are broad fees as of November 2021, including the 3D printers and peripheral devices. Please note that fees may change without prior notice.</p>			

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About ORIX:

ORIX Corporation (TSE: 8591; NYSE: IX) is a financial services group which provides innovative products and services to its customers by constantly pursuing new businesses.

Established in 1964, from its start in the leasing business, ORIX has advanced into neighboring fields and at present has expanded into lending, investment, life insurance, banking, asset management, automobile related, real estate and environment and energy related businesses. Since entering Hong Kong in 1971, ORIX has spread its businesses globally by establishing locations in 28 countries and regions across the world.

Going forward, ORIX intends to utilize its strengths and expertise, which generate new value, to establish an independent ORIX business model that continues to evolve perpetually. In this way, ORIX will engage in business activities that instill vitality in its companies and workforce, and thereby contribute to society. For more details, please visit our website: <https://www.orix.co.jp/grp/en/>

(As of September 30, 2021)

Caution Concerning Forward Looking Statements:

These documents May contain forward-looking statements about expected future events and financial results that involve risks and uncertainties. Such statements are based on our current expectations and are subject to uncertainties and risks that could cause actual results that differ materially from those described in the forward-looking statements. Factors that could cause such a difference include, but are not limited to, those described under "Risk Factors" in the Company's annual report on Form 20-F filed with the United States Securities and Exchange Commission and under "(4) Risk Factors" of the "1. Summary of Consolidated Financial Results" of the "Consolidated Financial Results April 1, 2020 – March 31, 2021."