

Press Release

June 24, 2020

LASERTEC 30 DUAL *SLM* High-speed, High-precision Laser Additive Manufacturing Machine Featuring Dual Laser System

DMG MORI CO., LTD. (hereinafter called DMG MORI) will launch the LASERTEC 30 DUAL *SLM*, a laser additive manufacturing machine featuring the dual laser system.

The LASERTEC 30 DUAL *SLM* is a powder-bed additive manufacturing machine equipped with two 600 W powerful lasers. Each laser has a large scan field that covers the entire build area (full overlap), and both lasers achieve build rates of up to 90 cm³/h. The focus diameters from 50 μm to 300 μm ensure maximum precision, and the optical cooling mechanism allows for high-precision buildups. Additionally, the dual laser system enables simultaneous laser irradiation and significantly improved scanning speed, thereby boosting productivity up to 80%.

The LASERTEC 30 DUAL *SLM* will be showcased in “DMG MORI Technology Fridays” to be held every Friday starting June 26 at the Iga Campus.

The video of LASERTEC 30 DUAL *SLM* is also available on the DMG MORI website. Please visit the website at: <https://www.dmgmori.co.jp/en/theme/movie/id=5105>

■ Main features

1. High-speed, high-output dual laser system

- Two powerful lasers with output power of 600 W and maximum build rate of 90 cm³/h
- 80% greater productivity thanks to the dual laser design
- Maximum precision with the minimum focus diameter of 50 μm

2. Permanent filter system

- Long filter life of more than 3,000 hours for long-time operation
- Best-in-class work safety due to automatic passivation of metal dust and fumes.

3. Powder module system “rePLUG”

- New powder module system rePLUG for fastest possible powder change
- Cartridge type for easy replacement, excellent maintainability and fast material change in about 2 hrs.

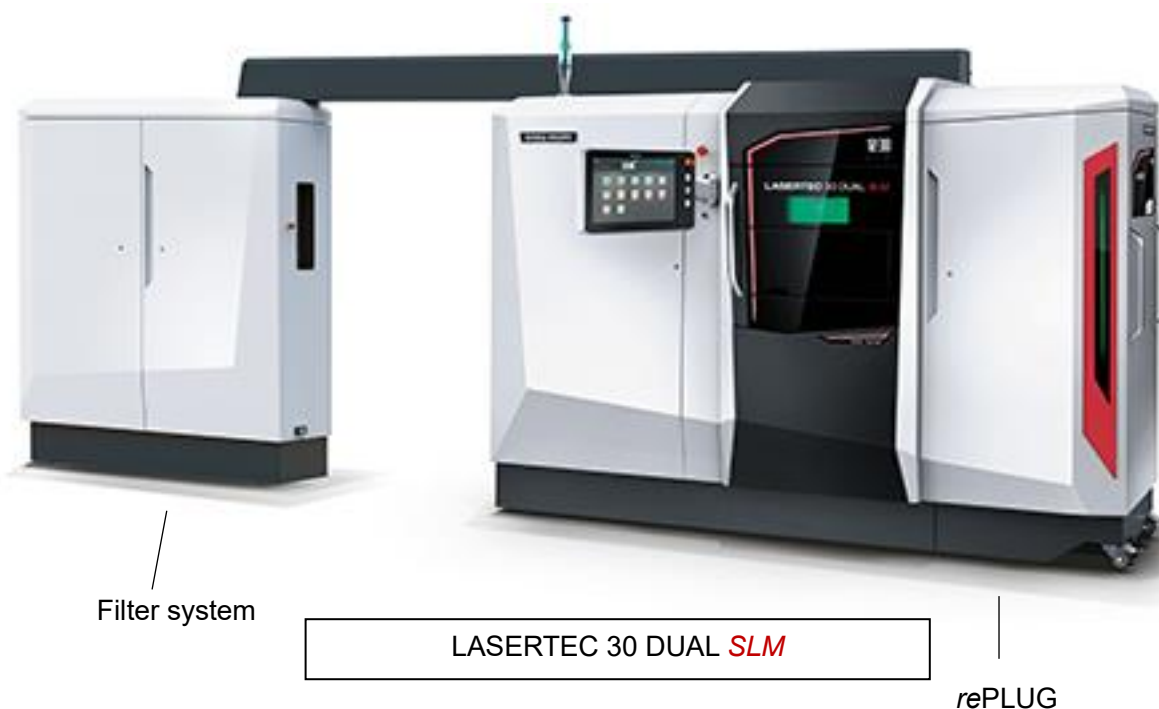
- Airtight structure integrated with the powder supply and collection units and the recycling system to prevent powders from scattering and ensure safe material change
- Compatible with rePLUG for LASERTEC 12 *SLM*

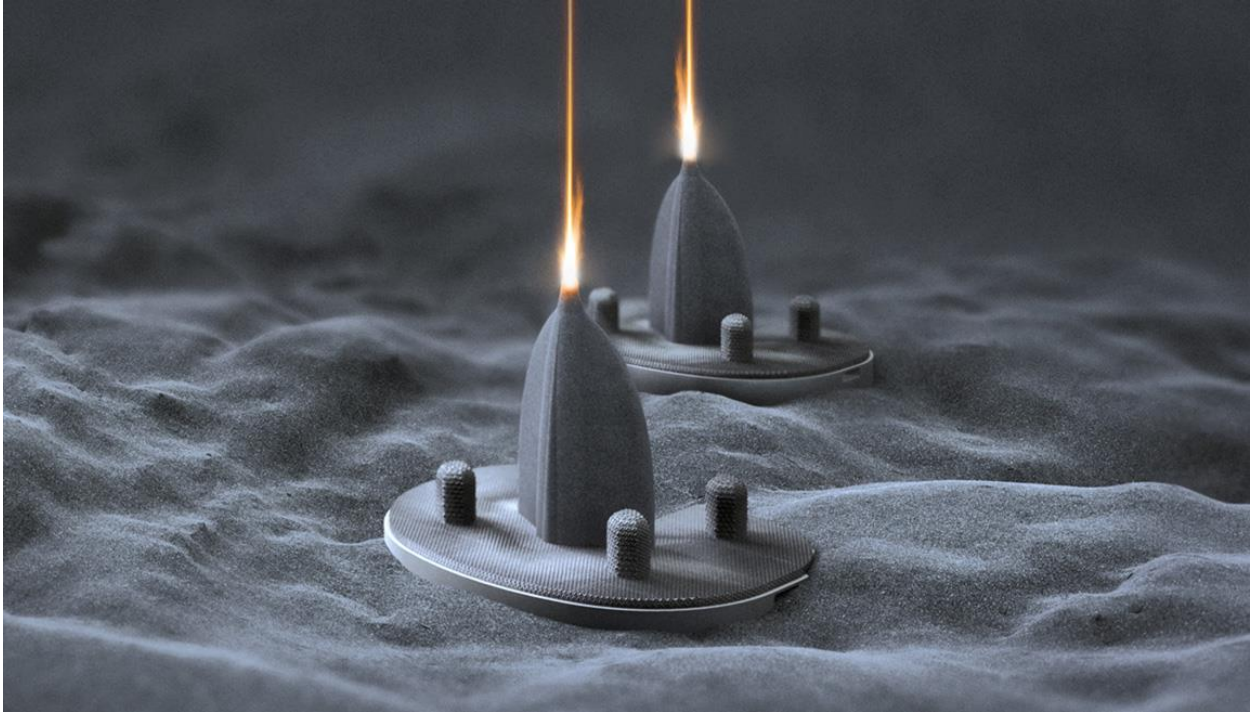
4. Innovative software “OPTOMET”

- OPTOMET software to help create the ideal buildup parameters
- Possible to calculate ideal buildup parameters just by entering two items of information about powders
- Possible to reflect parameters set by customers in a database
- Possible to calculate buildup parameters by entering the elemental components of new materials (option)

DMG MORI will continue to provide products that are reliable, highly-functional and worthy of investment to meet each and every customer’s needs.

Machine type	Laser additive manufacturing machine
Model name	LASERTEC 30 DUAL <i>SLM</i>
Market	Automotive, aerospace, medical, and Die & Mold





Buildups Image by LASERTEC 30 DUAL *SLM*