

POLYMER SOLUTIONS

# EOS P 500 FDR

- The innovative 2-roller-recoater, applies the material to the powder bed at a speed of up to 0.3 m/sec, and compacting the powder to an unprecedented degree of homogeneity and evenness, to guarantee a high level of part uniformity across the entire build space.
- Two powerful 70-watt CO-Lasers ensure a build speed that guarantees a full build job in a maximum of one day.
- The new 3-stage filter unit, together with the intelligent thermal and shielding gas management, ensure optimum process conditions across the entire build space.
- Open software interfaces and user-friendly tools support application-specific optimisations and allow the best compromise between quality and part throughput.
- Extensive sensor technology and optical process monitoring enable comprehensive documentation, e.g. to fulfil the requirements for manufacturing of medical products.
- The software allows user-specific settings and guarantees simple operation, so that it can also be used by unexperienced personnel.
- The integration of common CAD systems, such as NX™ from Siemens, as well as the option of integrating the machine into common ERP and MES systems, support digital production control.
- Automated interfaces and optimised accessories reduce the cycle time and ensure multi-day build process, without manual intervention by the user.



EOS P 500 FDR

## Fine Detail Resolution (FDR) additive manufacturing in automated, industrial production environments.

EOS P 500 FDR Solution - the new standard in additive manufacturing, with the most reliable mass production solution on the market that fulfils the requirements of automated industrial production environments, guarantees the highest quality in additive manufacturing and can be scaled for worldwide use.

# EXPOSURE MODULE

LASERS

2 x  
40 W



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## TECHNICAL DATA

<b>BUILD VOLUME</b>	500 x 330 x 400 mm (19.7 x 13.0 x 15.7 in)
<b>LASER TYPE</b>	CO <sub>2</sub> ; 2 x 40 W
<b>PRECISION OPTICS</b>	2 F-theta-lens(es); 2 High-speed scanner(s)
<b>SCAN SPEED</b>	up to 10.0 m/s (32.8 ft/s)
<b>POWER SUPPLY</b>	1 x 100 A

# MATERIALS & PROCESSES

EOS has exceptional materials expertise and a comprehensive portfolio of highly developed materials for additive manufacturing. Our materials, systems and process parameters fit together optimally. With the right materials, you can realize the desired property profiles in the best possible way for your products

## HEADQUARTERS

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Status as of 17.12.2025. Subject to technical modifications. EOS is certified according to ISO 9001.

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