

POLYMER SOLUTIONS

EOS P 500

- 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 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 inexperienced 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

Plastic laser sintering in automated, industrial production environments.

EOS P 500 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 CO₂ Laser with 70 Watts Power each.

SOFTWARE



EOS SYSTEM SUITE

EOS System Suite optimizes production by streamlining processes, integrating with MES and shop-floor IT systems, and generating detailed quality reports.



TECHNICAL DATA

BUILD VOLUME	500 x 330 x 400 mm (19.7 x 13.0 x 15.7 in)
LASER TYPE	CO ₂ ; 2 x 70 W
PRECISION OPTICS	2 F-theta-lens(es); 2 High-speed scanner(s)
SCAN SPEED	up to 10.0 m/s (32.8 ft/s)
FOCUS DIAMETER	approx. 480 µm (0.01890 in)
POWER SUPPLY	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

EOS P 500

PA 2200 Balance



PA 2200 CarbonReduced Balance



PA 2200 Performance



PA 2200 CarbonReduced Performance



PA 2200 Speed



PA 2200 CarbonReduced Speed



PA 2200 Top Quality



PA 2200 CarbonReduced Top Quality



PA 2200 Top Speed



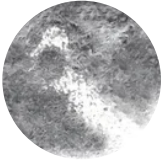
PA 2200 CarbonReduced Top Speed



PA 2201



PA 950 HD



OPTIONAL ACCESSORIES

IPCM P Plus

Fully Automatic With a Closed Powder Cycle

Big Bag Emptying Station

Big bag emptying station for large powder containers: supply up to 400 kg of new powder

Unpacking & Sieving Station

Unpacking and sieving station quickly removes excess material from the components, sieve and conveys used powder

Blasting Cabinet

Manually or automatically depowder components using glass or plastic blasting media

Cool Down Cover

HEADQUARTERS

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Status as of 12.04.2025. Subject to technical modifications. EOS is certified according to ISO 9001.

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