



Press Release

EOS Launches its EOS M 300-4 1kW Metal Additive Manufacturing System at Formnext 2023

Featuring four, one kilowatt lasers to deliver the power, performance and reliability to maximize production of aluminum and copper applications

Krailling, Germany, October 25, 2023 – EOS, a leading supplier of responsible manufacturing solutions, is launching the newest member of its EOS M 300 family, the **EOS M 300-4 1kW**. This new metal additive manufacturing (AM) system boasts four powerful, one kilowatt lasers to meet the production requirements of aluminum and copper 3D printed applications, such as aluminum brackets, holders, antennas, heat exchangers; and copper or copper alloy heat exchangers, inductors, e-mobility components, and more.

“The EOS M 300-4 has already proven to be a highly productive AM machine for our customers, but we need to meet the growing market demand of challenging materials like copper and high productivity processes,” said Sebastian Becker, EOS metal systems lead. “The EOS M 300-4 1kW delivers power and productivity at the highest level of reliability to achieve the lowest cost-per-part in the industry.”

The EOS M 300-4 1kW features:

- A build volume of 300x300x400mm (11.8x11.8x 15.8in)
- Four (4) one kilowatt lasers
- Reliable two (2)-axis scanning units for maximized build efficiency
- The best cost-per-volume (example: AlSi10Mg)
 - Layer thickness: 80 µm
 - Build rate: $4 \times 38.5 \text{ mm}^3/\text{s} = 154 \text{ mm}^3/\text{s}$ (555 cm^3/h)
 - Minimum relative density: 99.5 %, tensile strength: 350 MPa, yield strength: 205 MPa, elongation at break: 3-5 %

“Additive manufacturing offers transformative potential, especially for products like aluminum cylinder heads that were traditionally made by diecasting,” said Manja Franke, chief strategy officer at [AMEXCI](#), a leading AM company in the Nordics. “The speed and power of new AM platforms, like the EOS M 300-4 1kW, allow us to manufacture complex components, while ensuring enhanced design flexibility, weight reduction and readiness for future emission standards. To rival conventional methods, AM's cost-effectiveness is vital and systems like the EOS M 300-4 1kW offer the possibility to achieve this. Thus, our



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partnership with EOS aims to maximize productivity and push AM's competitive boundaries.”

At launch, the EOS M 300-4 1kW is ideal for applications in aviation, energy, government and defense; and mobility/transportation industries that leverage AlSi10Mg, copper and copper alloys. During 2024, the system material portfolio will be expanded according to customer demand.

The EOS M 300-4 1kW can be further optimized by the robust and reliable Volkmann PowTrex EOS Edition powder handling system with a higher conveying and sieving rate than comparable material handling systems. Additional information about the Volkmann PowTrex EOS Edition will be announced later in 2023.

Commercially available in February 2024, the EOS M 300-4 1kW system will be launched and operational at [Formnext 2023 in Frankfurt, Germany, November 7-10, in hall 11.1, booth D41.](#)

About EOS

[EOS](#) provides responsible manufacturing solutions via industrial 3D printing technology to manufacturers around the world. Connecting high quality production efficiency with its pioneering innovation and sustainable practices, the independent company formed in 1989 will shape the future of manufacturing. Powered by its platform-driven digital value network of machines and a holistic portfolio of services, materials and processes, EOS is deeply committed to fulfilling its customers’ needs and acting responsibly for our planet.

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EOS Contact

Patrick Boyd

Marketing Director

+1 801.368.3977

Patrick.Boyd@eos-na.com