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EOS P 396

Proven for Serial Production: Industrial 3D Printer for Manufacturing Plastic Parts with Reproducible Properties at Attractive Cost-Per-Part

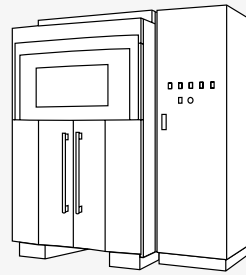
Reliable and predictable: Only powder is needed for high-quality, low-cost parts
Ready to use components: Functional parts right after unpacking and depowdering



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Largest Material Portfolio for a Reliable Production

The medium size system (build volume 340 x 340 x 600 mm) enables a flexible and tool-free manufacture directly from CAD data: from on-demand production of spare parts to serial production.



- Due to the high build rate of 3 l/h the reliable system is predestined for a flexible production.
- Thanks to the powerful 70 W laser, optimized and higher recoating speed the build time and cost per part are reduced significantly.
- The precise recoater with exchangeable blades applies material accurate and ultra-fast which contributes to excellent part quality.
- The well-established EOSAME feature homogenizes the energy input, thus ensuring excellent mechanical part properties and dimensional accuracy within the overall build volume.
- The spot pyrometer accurately and continuously measures the temperature of the material layer to be exposed and allows an overall reduction of non-productive time down to 60%.
- With 17 commercial polymer materials and 22 combinations of materials and layer thicknesses currently available versatile applications can be realized. In addition, the EOS ParameterEditor allows customized exposure parameters to be defined based on proven starting values.

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Technical Data EOS P 396

* at 5 % packaging density

| | |
|---|--|
| Building volume | 340 x 340 x 600 mm (13.4 x 13.4 x 23.6 in) |
| Laser type | CO ₂ ; 70 W |
| Building rate | up to 3,0 l/h* |
| Layer thickness (depending on material) | 0.06 – 0.10 – 0.12 – 0.15 – 0.18 mm (0.0024 - 0.0039 - 0.0047 - 0.0059 - 0.0071 in) |
| Precision optics | F-theta lens, high-speed scanner |
| Scan speed during build process | up to 6 m/s (19.7 ft/s) |
| Power supply | 400 V / 32 A, max. power supply 16 A |
| Power consumption | typical 2.1 kW; maximum 10 kW |
| Dimensions (W x D x H) | 1,840 x 1,175 x 2,100 mm (72.4 x 46.3 x 82.7 in) |
| Recommended installation space | ca. 4.3 x 3.9 x 3.0 m (169.3 x 153.5 x 118.1 in) |
| Weight | ca. 1,060 kg (2,337 lb) |

Software

EOS ParameterEditor, EOSAME, EOS RP Tools, EOSTATE Everywhere, PSW 3.8, EOSYSTEM

Materials

PA 1101, PA 1102 black, PA 2200, PA 2201, PA 2202 black, PA 2210 FR, PrimePart PLUS (PA 2221), PrimePart FR (PA 2241 FR), PA 3200 GF, Alumide, CarbonMide, PrimePart ST (PEBA 2301), PP 1101, PrimeCast 101, ALM FR-106, ALM HP 11-30, ALM PA 640 GSL

Optional Accessories

IPCM P plus, Big Bag emptying station, unpack- and sieving station, blasting cabinet

