EXT 220 MED

Discover the first 3D printer specifically designed for the additive manufacturing (AM) of medical applications

Discover the first 3D printer specifically designed for the additive manufacturing (AM) of medical applications. The Kumovis R1 with its filament-based extrusion technology enables printing of implants and instruments using high performance polymers, including PEEK, CFR-PEEK and Radel® PPSU.

It is the only platform with an integrated clean room and temperature controls with a laminar airflow to enable high-quality, biocompatible device production. Validated to fulfill ASTM standards and by leading hospitals and device manufacturers worldwide, EXT 220 MED delivers rapid, reproducible printing of a broad range of applications, including:

- Cranial, orbital and maxillofacial plates
- Interbody spine cages
- Cervical bone plates
- Trial implant spacers
- Other medical instruments



EXT 220 MED 3D Printer

Sample applications and associated fabrication times



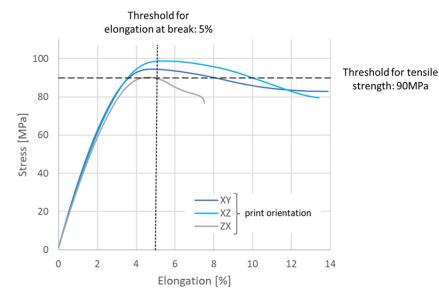


Ensure reproducible, compliant device production

EXT 220 MED's integrated temperature management system maintains a controlled environment (up to 250 °C). This enables 3D printing of devices using thermogenic materials such as PEEK and Radel® PPSU while meeting ASTM standards for mechanical properties.

Mechanical properties meets ASTM F2026 standards

(printed with Evonik i4 3DF PEEK)





Temperature-controlled chamber with a full build envelope (220mm diameter, 150mm height)





Primary or backup manufacturing US or EU















Quality management+ regulatory services/ consulting

Advance your portfolio with a complete AM solution

Whether you are expanding 3D printing capabilities at your manufacturing facilities or at the point of care, EXT 220 MED is the ideal platform. Plus, our team understands the complexities of device production, and are available to help you with material selection, design software, navigating regulatory pathways, machine qualification and more.

Gain the additive advantage with the EXT 220 MED solution

Start a conversation with us: 3dsystems.com/medical-devices

