

Orion AM A-150 Series Industrial Additive Manufacturing System

Orion Additive Manufacturing GmbH provides industrial additive manufacturing solutions for high-performance polymers. It's proprietary thermal radiation heating process achieves 3D-printed parts with 100% density and injection molded strength. This enables the production of fully end-use parts with high strength, temperature resistant, and chemical resistant materials.



Benefits

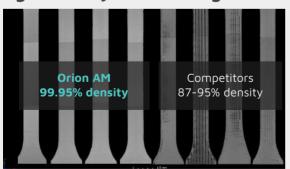
Over 90% production time savings
Up to 50% cost reduction
Metal replacement 50% lighter than aluminum

Tensile Strength compared to Injection Molding



Orion AM's process achieves a tensile strength *greater* than injection molding for PEEK

High Density 3D-Printing Process



Orion AM's process achieves low porosity comparable to injection molding

Technical Specifications

PRINTING	
Build Volume:	180 mm diameter x 150mm high
Nozzle diameter(s)	0.10mm - 0.40mm
Layer Height:	20μm - 400μm
Print Speed:	10mm/s - 400mm/s
Technology:	FFF - Thermal Radiation Fusion
Extruder Max Temp:	500°C
Chamber Max Temp:	320°C
Layer Max Temp:	400°C
Bed Max Temp:	320°C
Filament Diameter:	1.75mm
Materials:	PEEK, PAEK, PEKK, PPSU, PEI (ULTEM), PI, PC, PA
Connectivity:	WiFi, Ethernet, USB
HARDWARE	
Display:	7" capacitive touchscreen display
Overall Dimensions:	570mm x 550mm x 830mm
Weight:	50kg
Motion Kinematics:	Delta 3-Axis platform
Voltage:	380 - 440V AC - 16A
Power consumption:	5kW Peak / 1kW Nominal

Application Areas







CF PEEK Battery Pack



Igus A350 Automation



ULTEM (PEI) Spare Parts

