
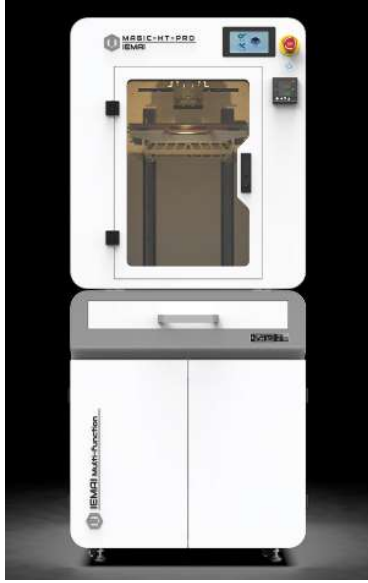
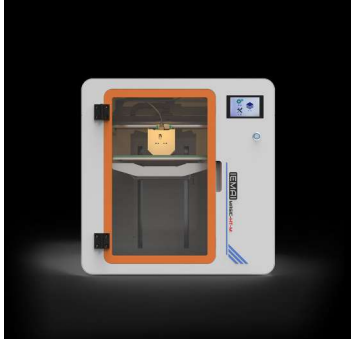


## IEMAI HT-Series High-Temperature 3D Printers – Technical Comparison

	HT-MAX	HT-PRO	HT-M
			
Key Characteristics Summary	<ul style="list-style-type: none"> <li>• Large-format PEEK production</li> <li>• 500°C dual-nozzle high-temp system</li> <li>• 150°C chamber</li> <li>• 500x500x700 volume</li> </ul>	<ul style="list-style-type: none"> <li>• Balanced industrial model</li> <li>• 500°C high-temp extruder</li> <li>• 120°C chamber</li> <li>• Dual-nozzle</li> <li>• 310 × 310 × 410 mid-size volume</li> </ul>	<ul style="list-style-type: none"> <li>• Compact high-temp printer</li> <li>• Ideal for labs</li> <li>• 450°C nozzle</li> <li>• 90°C chamber</li> <li>• Lightweight</li> </ul>
Key Features	<ul style="list-style-type: none"> <li>• Large-format industrial frame</li> <li>• Dual-nozzle system</li> <li>• Automatic leveling</li> <li>• Vacuum heated bed</li> <li>• Power-failure recovery</li> <li>• Filament run-out detection</li> <li>• Enclosed high-temp chamber</li> </ul>	<ul style="list-style-type: none"> <li>• Dual-nozzle modularization</li> <li>• Liquid-cooled extruder</li> <li>• Filament run-out detection</li> <li>• Power-failure recovery</li> <li>• Automatic nozzle cleaning</li> <li>• Quick-detachable platform</li> <li>• Enclosed heated chamber</li> </ul>	<ul style="list-style-type: none"> <li>• Power-failure recovery</li> <li>• Filament detection</li> <li>• Auto shut-off</li> <li>• WiFi control</li> <li>• Auto-leveling</li> <li>• Optional camera monitoring</li> </ul>
All three HT-series models are capable of reliable PEEK production for medical and engineering applications			
<b>Core Capabilities</b>			
Build Volume	500 × 500 × 700 mm	310 × 310 × 410 mm	220 × 220 × 220 mm
Printing Temperature	Up to 500 °C	Up to 500 °C	Up to 450 °C
Chamber Temperature	Up to 150 °C	Up to 120 °C	Up to 90 °C
Hot Bed Temperature	Up to 200 °C	Up to 200 °C	Up to 150 °C
Extrusion System	<ul style="list-style-type: none"> <li>• Dual-nozzle modular</li> <li>• Independent lifting</li> <li>• Liquid-cooled print head + air-cooled part cooling</li> </ul>	<ul style="list-style-type: none"> <li>• Individual-lifting</li> <li>• Liquid-cooled dual-nozzle</li> </ul>	<ul style="list-style-type: none"> <li>• Single-nozzle modular extrusion</li> </ul>
Printing Platform	<ul style="list-style-type: none"> <li>• Vacuum adsorption heated bed</li> <li>• Carbon-fiber plate / polymer membrane</li> </ul>	<ul style="list-style-type: none"> <li>• Carbon-fiber plate</li> <li>• Quick-detachable platform</li> </ul>	<ul style="list-style-type: none"> <li>• Carbon-fiber plate,</li> <li>• Quick-detachable bed</li> </ul>

Recommended Layer Thickness	0.05 – 0.30 mm	0.05 – 0.30 mm	0.05 – 0.30 mm
Position Accuracy		X/Y: 12.5 µm Z: 1.25 µm	X/Y: 12.5 µm Z: 1.25 µm
Max Print Speed	0 – 150 mm/s	0 – 150 mm/s	0 – 150 mm/s
<b>Compatibility</b>			
Filament Diameter	1.75 mm	1.75 mm	1.75 mm
Supported Materials	<ul style="list-style-type: none"> <li><u>High-Temperature Polymers:</u> PEEK, CF-PEEK, GF-PEEK, PEKK, PEI 1010/9085, PPSU, PPS</li> <li><u>Engineering-Grade:</u> PC, CF-PC, PA, CF-PA, GF-PA, ABS, CF-ABS, ASA, CF-ASA, PETG, CF-PETG</li> <li><u>General &amp; Support:</u> PLA, CF-PLA</li> </ul>	<ul style="list-style-type: none"> <li><u>High-Temperature Polymers:</u> PEEK, CF-PEEK, PEKK, CF-PEKK, PEI 1010/9085, PPSU</li> <li><u>Engineering-Grade:</u> PC, CF-PC, PA, CF-PA, GF-PA, ABS, CF-ABS, PETG, HIPS</li> <li><u>General &amp; Support:</u> PLA, CF-PLA, TPU, PVA</li> </ul>	<ul style="list-style-type: none"> <li><u>High-Temperature Polymers:</u> PEEK, CF-PEEK, PEKK, CF-PEKK, PEI 1010/9085, PPSU</li> <li><u>Engineering-Grade:</u> PC, CF-PC, PA, CF-PA, GF-PA, ASA, ABS, CF-ABS, PETG, HIPS</li> <li><u>General &amp; Support:</u> PLA, CF-PLA, TPU, PVA</li> </ul>
Nozzle Diameter	0.4 mm (standard), optional 0.6 mm	0.4 mm (standard), optional 0.8 mm / 1.0 mm	0.4 mm (standard), optional 0.8 mm / 1.0 mm
File Types Supported		STL, OBJ, 3MF, GCODE	STL, OBJ, 3MF, GCODE
Slicer Compatibility	IEMAI 3D Expert, Cura, Simplify3D	IEMAI 3D Expert, Cura, Simplify3D	IEMAI 3D Expert, Cura, Simplify3D
<b>Machine Specifications</b>			
Machine Size	1080 × 1380 × 1950 mm	702 × 625 × 800 mm	505 × 435 × 515 mm
Cabinet Size		702 × 625 × 805 mm	
Packing Size (Printer)	1300 × 1600 × 2300 mm	702 × 625 × 980 mm	535 × 465 × 675 mm
Net Weight	750 kg	122 kg (printer) + 77 kg (cabinet) = 199 kg	35 kg
<b>Connectivity &amp; Environment</b>			
Connectivity	SD card, Wi-Fi, USB	SD card, Wi-Fi, USB	SD card, LAN, USB
Operating Environment		15–30 °C; 10–90% RH; no condensation	15–30 °C; 10–90% RH; no condensation
<b>Power Requirements</b>			
Power	<ul style="list-style-type: none"> <li>220 V ±10%, 50–60 Hz</li> <li>Max Power 6500 W</li> </ul>	<ul style="list-style-type: none"> <li>100–130 V or 200–250 V, 50–60 Hz</li> <li>3000 W (printer) + 50 W (cabinet)</li> </ul>	<ul style="list-style-type: none"> <li>200–250 V, 50–60 Hz</li> <li>950 W</li> </ul>