



Essentium HSE™ 280i HT 3D Printing Platform Specifications

NUMBER OF PRINT HEADS	Two
NOZZLE	Gen 5 Hozzle™ Heated Nozzle
NOZZLE DIAMETER	0.4 mm and 0.8 mm
NOZZLE TEMPERATURE	550°C
PRINTER DIMENSIONS	1590 x 1350 x 2490 mm
NET WEIGHT	1000 kg
PRINT SPEED	500 mm/s
MOTION SYSTEM ACCURACY	0.081 mm XY and 0.005 mm Z
POSITION ACCURACY	0.25 mm
LAYER HEIGHT	0.1-0.55 mm
BUILD PLATE TEMPERATURE	up to 190°C
BUILD CHAMBER TEMPERATURE	up to 200°C
ELECTRICAL REQUIREMENTS	200-240 VAC
MAXIMUM POWER CONSUMPTION	9,000 W
HEAT LOAD AT HIGH TEMPERATURES	4,000 W
FILAMENT DIAMETER	1.75 mm
MULTI-MODAL HEATING	Yes



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HOT SWAP READY	45 seconds	
MACHINE HEAT UP TIME	15-120 minutes	
SEALED CHAMBER	CE compliant, Flow rate >95 m³/hr	
SPOOL STORAGE	Six DryAir canister slots	
SCRUBBER READY	Yes	
H OPTIMIZER ENABLED	Yes	
Z COMPENSATION	Yes	
COMPATIBLE MATERIALS	Open ecosystem to use any material	
SLICING SOFTWARE	Simplify3D	
OPERATOR MODES	Start Mode, Production Mode	
SUPPORT PRINTING	Water soluble, breakaway	
	Build Volume	Throughput
SINGLE HEAD PRINTING	695 x 495 x 600 mm	Up to 220 g/hr
MULTI-MATERIAL PRINTING	595 x 495 x 600 mm	Up to 200 g/hr
COPY MODE PRINTING	(395 x 495 x 600 mm) x2	Up to 440 g/hr
SUPPORT MODE	595 x 495 x 600 mm	Up to 200 g/hr
INDEPENDENT MODE	Coming Winter 2021	Coming Winter 2021