HP IF 3D Printer 600 HT specifications

PRINTING	Print technology:	Fused Filament Fabrication (FFF)
	Build volume:	380 × 380 × 420 mm (60,480 cm^3) 15 x 15 x 16,5 in
	Min. layer height:	50 µm
	Number of printheads:	2; purging system
	Nozzle diameter:	0.5/0.5 mm or 0.4/0.4 mm
	Filament diameter:	1.75 mm
	Printhead temperature (max.):	500°C
	Buildplate temperature (max.):	190°C
	Chamber temperature (max.):	195°C (active heating)
	Filament chamber temperature (max.):	50°C
	Achievable part accuracy:	Parts are printed with an accuracy of 0.125 mm or 0.0014 mm/mm whichever is greater. Accuracy in Z-axis includes an additional tolerance of 0.000/+ layer height
SPEED	Travel move:	1000 mm/s
	Printing speed:	Up to 400 mm/s
DIMENSIONS AND MASS	External dimensions (WxDxH):	915 x 980 x 2020 mm
	Mass:	365 kg
CONSTRUCTION	Chassis:	Steel
	External:	Steel and vacuformed ABS, chamber lined with satin stainless steel
	Build surface:	Borosilicate glass / vacuum sealed plastic sheets and PEI sheet
ENVIRONMENT	Working temperature:	18-30°C
	Storage temperature:	-20-54°C
POWER	Electrical ratings:	230–240 V~ (±10%), 50/60 Hz, 20 A (max), 4.6 kW (max), 1.5 kW (average)
	Appliance coupler:	IEC 60309, 32 A, 2P + PE. Detachable power cord not provided.
	Communication:	Ethernet, USB drive
COMPRESSED AIR	Pressure:	Maximum 6 bar
	Line diameter:	8 mm
	Airflow:	Minimum 50 l/min
SOFTWARE	Slicing software:	3DGence SLICER 4.0
	Cloud based services:	3DGence CONNECT
TYPES OF COMPATIBLE MATERIALS	PEI, PEEK, PEEK-CF, PAEK, ABS, PC, PA-CF (Examples, not limited to this list of materials)	
SAFETY	Advanced Filtration Unit:	High-efficiency three-stage filtration: Pre-filter (G4), HEPA H13 particle filter, and activated carbon
PRODUCT CERTIFICATIONS	CE and NRTL (UL2011) listed	
WHAT IS INCLUDED?	HP Industrial Filament 3D Printer 600 High Temperature (HT)	
	Set of accessories	
	Signal tower	
	Emergency stop circuit	
	Air Treatment Unit (ATU)	
	Advanced filtration unit	
WHAT IS THE ADDITIONAL EQUIPMENT?	HP Industrial Filament 3D Printer 280 Module with dual-extruder	
	HP Industrial Filament 3D Printer 360 Module with dual-extruder	
	HP Industrial Filament 3D Printer 500 Module with dual-extruder	

HP IF 3D Printer Material Management System[1] specifications

DIMENSIONS	Dryer dimensions (WxDxH):	3 chambers: 850 × 630 × 1740 mm
	Max. dimensions with open door [WxDxH]:	3 chambers: 850 × 1090 × 1740 mm
ENVIRONMENT	Working temperature:	10÷28°C relative humidity from 30% to 60% w/o condensation
	Storage temperature:	-20÷54°C relative humidity 10% bis 85% w/o condensation
POWER	Electrical ratings:	230–240 V~ (±10%), 50/60 Hz, 16 A (max), 3.6 kW (max)
	Appliance coupler:	IEC 60309, 32 A, 2P + PE. Detachable power cord not provided
TEMPERATURES	Operating temperature range:	50°C - 200°C
CONNECTION	Communication:	LAN, USB
DRYING	Operating technology:	Dry air [actively dried]
	Drying chamber space [WxDxH]:	470 × 260 × 320 mm
	Drying chamber volume:	39,1 l
	Number of material slots in one chamber:	4
	Number of chambers in the dryer:	3
	Maximum filament spool diameter:	220 mm
	Maximum thickness of the spool:	90 mm
	Material tracking system:	Smart Material Manager
	Third-party materials:	Yes, in the CUSTOM option
	Drying process settings:	Predefined / Edition in the CUSTOM option
	Recrystallization process settings:	Predefined
SOFTWARE	Device monitoring and archiving:	Locally and 3DGence CONNECT
	Software updates:	Automatic, via USB and Internet
CONSTRUCTION	Construction:	Freestanding, equipped with castor wheels
	Frame:	Steel
	Doors:	Sealed/Thermally Insulated
	Electronics:	3DGence
	NFC TAG Reader:	Yes, on the front of the device
	Display:	10" TFT capacitive display with 1280 x 768 px resolution
PRODUCT CERTIFICATIONS	CE and NRTL listed	
ACCESSORIES	Print recrystalization kit	
	Drying agent cartridges (one for each drying chamber)	
	Drawers for storing materials in the drying chamber (one for each drying chamber)	

HP IF 3D Printer Modules[1] specifications

	HP IF 3D Printer 280 Module	HP IF 3D Printer 360 Module	HP IF 3D Printer 500 Module
Temperature	Up to 280ºC	Up to 360ºC	Up to 500ºC
Nozzle diameter	0,5 mm/0,5mm	0,4 mm/0,4mm	0,4 mm/0,4mm
Types of materials compatible*	ASA, ABS, PA-CF, PA6, PETG	PEI, PC-ABS, PC	PEEK, PEEK-CF, PAEK
Support material	HPSM-10, HIPS	HPSM-10, ESM-30	HPSM-10, ESM-30

*These are examples; not limited to this list.

Ordering information

Product number	Product
D09MVA	HP Industrial Filament 3D Printer 600 High Temperature
D09MWA	HP Industrial Filament 3D Printer Material Management System[1]
D09MXA	HP Industrial Filament 3D Printer 280 Module[1]
D09MYA	HP Industrial Filament 3D Printer 360 Module[1]
D09MZA	HP Industrial Filament 3D Printer 500 Module[1]

1. Selected availability in the EMEA region starting in early 2026. EU countries (27) : Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden. EFTA countries (4): Iceland, Liechtenstein, Norway, and Switzerland. Also UK and Turkey. Selected Availability in the AMS region in the first half of 2026: United States and Canada.
2. HP IF 3D Printer Modules and the HP Industrial Filament 3D Printer Material Management System are optional accessories sold separately.
3. The stated nozzle temperature capability (280 °C / 360 °C / 500 °C) is based on the maximum operating temperature specifications of each respective interchangeable print module (M280, M360, and M500). Actual printing temperatures are selected by the user based on material requirements.
4. HP Certified materials are engineered and tested in combination with the HP Industrial Filament 3D Printer, the Material Management System, and printer modules to ensure consistent, high-quality results. This integrated approach enables optimized process parameters, stable material behavior, and predictable part performance across applications.
   While HP cannot guarantee the same level of reliability or print quality with non-HP IF 3D Printer Materials, the open platform supports third-party polymers through predefined generic profiles that are compatible with the system and available at no additional cost—providing users with flexibility without the need to create profiles from scratch.
5. The HP Industrial Filament 3D Printer's repeatable performance is achieved through its rigid mechanical architecture, precise motion system, and intelligent thermal control, which maintain stable printing conditions and dimensional accuracy over successive production cycles.
6. Based on built-in printer capabilities, including real-time system monitoring, sensor-based feedback loops, and automated diagnostics designed to maintain controlled process conditions and identify potential errors before or during printing. These features support reliable operation and help enable predictable, repeatable outcomes when using recommended settings and materials. Actual results may vary based on material selection, part geometry, and print parameter configuration.
7. This specification reflects the maximum part accuracy under nominal conditions. The figure of '±0.125 mm or 0.0014 mm/mm, whichever is greater' applies to the X/Y dimensions and includes an additional tolerance ('+0/ +layer height') in the Z-axis. Actual part tolerances may vary based on the chosen material, part geometry, ambient conditions, print settings and calibration procedures.
8. Filtration components selected based on HEPA H13 standards and activated carbon adsorption properties. Performance varies by material type, maintenance, ventilation, and operational conditions. The customer takes full responsibility for assessing the relevant product Safety Data Sheets, evaluating the potential for operator exposure, and implementing appropriate ventilation, or other industrial hygiene measures, to meet local environmental, health and safety requirements.

If you would like to learn more about the HP IF 3D Printer Solution 600 HT or to connect with us, please visit:
https://reinvent.hp.com/us-en-3dprint-filament3dprinter600HT

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