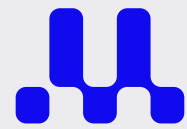


# UltiMaker print core

## Product data sheet

# Print core AA+



# UltiMaker

## Higher Uptime, Faster Changeovers

Maximize print performance and machine uptime with our swappable, material-matching print cores. Set up your 3D printer in seconds, whether you need reliable build and support material combinations for geometric freedom, a different nozzle size, or to print in dual color.

## Next-Level Productivity

Redefine your workflow with the UltiMaker AA+ print core. Engineered for high-speed, high-flow printing, its specialized internal geometry delivers up to 2.5× more productivity. Optimized for UltiMaker Cheetah motion planning, it allows you to maximize the speed of your hardware without compromising on part accuracy or surface quality.

## Key Features

- ✓ **Fast setup:** Quickly swap print cores and switch between different material combinations to minimize downtime.
- ✓ **Recognition:** The printer will automatically recognize the print core type and nozzle size for quick and error-free configuration changes.
- ✓ **Quad-chamber geometry:** Features a redesigned internal nozzle structure that enables massive material flow rates of up to 35 mm<sup>3</sup>/s.
- ✓ **Versatile compatibility:** Optimized for a wide range of non-abrasive build materials, making it the go-to print core for high-speed functional prototyping.
- ✓ **Cheetah optimization:** Fully integrated with UltiMaker Cheetah motion planning to ensure high-accuracy printing even at peak speeds.

## Specifications

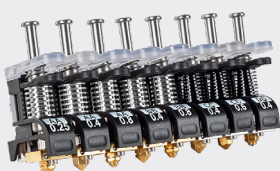
Print core type	AA+
Filament diameter	2.85 mm
Temperature	Up to 280 °C
Nozzle sizes	0.4 mm (SKU 237391)
Nozzle material	Brass (CuZn39Pb3)
Heater block material	Brass (CuZn39Pb3)
Heater cartridge	30W, 24V
Temperature sensor	PT100B
Memory	EEPROM
Box dimensions	126.7 × 121.3 × 21.5 mm
Warranty	Print cores are consumables and excluded from warranty

## Compatibility

<b>UltiMaker 3D printers</b>	<ul style="list-style-type: none"><li>• UltiMaker S6</li><li>• UltiMaker S8</li></ul>
<b>UltiMaker materials</b>	<ul style="list-style-type: none"><li>• PLA</li><li>• Tough PLA</li><li>• PETG</li><li>• ABS</li><li>• Nylon</li><li>• CPE</li><li>• CPE+</li><li>• PC</li><li>• PP</li><li>• TPU 95A</li><li>• Breakaway</li></ul>
<b>Third-party materials</b>	Also compatible with various third-party and Marketplace materials (non-soluble and non-composite).

## More print cores

For additional material-compatibility and features, see the other print core types that UltiMaker has available:



### Print core AA

0.25, 0.4, and 0.8 mm  
Compatible with a wide range of (non-abrasive) build materials.

### Print core BB

0.4 and 0.8 mm  
Compatible with water-soluble (PVA) support material.

### Print core CC

0.4 and 0.6 mm  
Designed for abrasion-resistance, for use with composite filaments.

### Print core DD

0.4 mm  
For support interface layers in combination with metal filament.

### Print core HT

0.6 mm  
For high-temperature materials such as PPS CF on Factor series.

### Print core CC+

0.6 mm  
For reliable high-speed printing with abrasive composite materials.