
J-Head™ All-Metal HiFlow™

Description:

The J-Head™ hotends have been a favorite among professionals and enthusiasts alike since 2011. With its innovative designs and low part count, there are few if any points of failure in a Genuine J-Head™ hotend. With its vertical heater cartridge, J-Head™ HiFlow™ hotends are faster than ever. With the all new J-Head™ All-Metal HiFlow™ we've focused on bringing down the overall cost, without sacrificing the quality we are known for at hotends.com.

Features:

- Easily print with temperatures above 300°C
- 1.75mm Filament
- Seamless filament path ensures no leaks
- J-Head™ Temp Probe Thermistor for ease of installation
- Direct Drive/Universal top with Bowden Aglet™
- Heater cartridge for ease of installation
- High speed
- Compact
- Ultra-lite
- Long melt chamber

Applications:

- Additive manufacturing (3D printing)
- Fused Filament Fabrication (FFF)
- For use with filaments - PLA, ABS, PETG, TPU, NYLON, ASA + more

Device Information:

Type	Size (mm)
Direct-Drive/Universal	(L) 60.0
Nozzle Diameters (mm)	
0.40 (stock) swappable with any size	
Heater Cartridge Voltage	
12v, 24v	
Filament Diameter (mm)	
1.75	

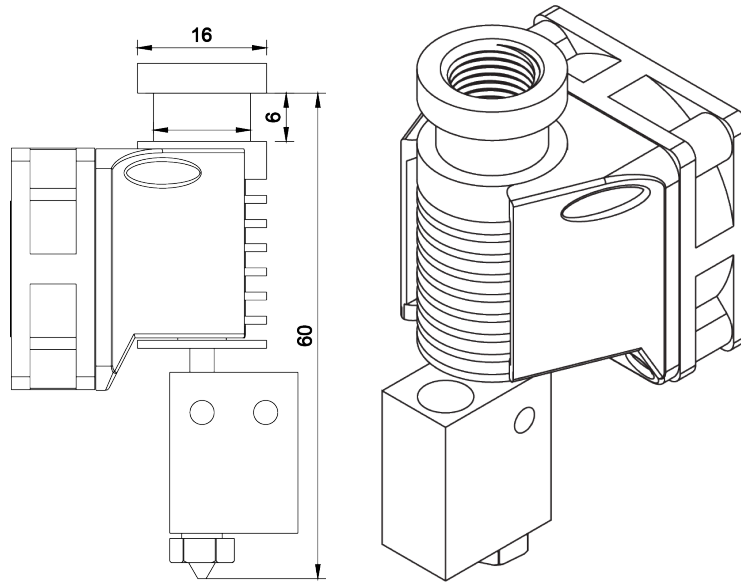
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1: Mechanical Drawings:



Direct Drive/Universal

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2: Revision History:

Revision 1.0

- Added initial information to datasheet

3: Limiting Values:

At room temperature (unless otherwise noted)

Symbol	Parameter	Type	Min	Max	Unit
Vcc	Supply Voltage	12v	11	13	V
Vcc	Supply Voltage	24v	22	26	V

4: Recommended Printing Temperatures

Common thermoplastics printed with Genuine J-Head™ hotends.

Filament	Min	Max	Unit
PLA	190	220	°C
ABS	235	250	°C
PETG	240	250	°C
NYLON	240	250	°C
TPU	220	240	°C
ASA	240	250	°C



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5: Application and Implementation

NOTE

Information in the following applications sections is not part of the J-Head specification, and Hotends LLC does not warrant its accuracy or completeness. Hotends LLC's customers are responsible for determining suitability of components for their purposes. Customers should validate and test their design implementation to confirm system functionality.

5.1: Components

Type	Make	Type	Watts	Ohms
Thermistor	Honeywell 100k	135-104LAC-J01 (1%) 135-104QAD-J01 (2%) 135-104LBF-J01 (5%) 135-104LAF-J01 (5%)		
Heater Cartridge		12v	40	3.6
Heater Cartridge		24v	40	14.4

6: Installation

- Insert the M3 stud thermistor into the threaded hole on the side of the heater block.
- Mount to the carriage with the mounting groove.
 - ◆ For bowden setups: see Aglet™ installation instructions
- Plug in heater cartridge and thermistor and enjoy!



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