Phætus®

Dragonfly[®] BMS Hotend Assembly Instructions

Please read and keep this manual carefully before using our products properly

Product Appearance

Exclusive Choice for High Configuration



Thank you for buying Phaetus' Dragonfly BMS Hotend.

Product Features



Compatible Filaments

Compatible with all filaments, including: PLA, ABS, PETG, TPU, PP, PC, Nylon, PEEK, PEI and composite materials containing abrasive additives, such as carbon fiber, steel, wood, boron carbide, tungsten and phosphorescent pigment.

Specifications

Product Name: Dragonfly® BMS Product Size: 49mm*21mm*24mm Nozzle Diameter: Can be matched arbitrarily Color: Blue / Black Product Net Weight: BMS 38g

Parts & Accessories



Hexagon bar (1.27/1.50/2.00 each) Open wrench (5mm/12mm each) M1.4 Inner hexagon screws *2pcs M2.5 Hexagon socket head screws *4pcst Collect clip *1pcs Brass tube *1pcs Silicone sock *1pcs Thermal conductive silicone *1pcs



Product Advantage

 The hotend's core parts are mainly composed of copper alloy, which has the advantage of better heat conduction.

Overall high temperature resistance up to 500 °C.

 Heat sink and heat break adopt conical surface fitting design, increase heat dissipation.

· Low roughness of heat break.

 The inner hole roughness of the heat break ≤ Ra0.3, which allow a smoother movement of filament.

· High printing precision, no filament plugging.

Supported 3D Printer Models

Dragonfly Hotend is compatible with the following models (including but not limited to) :

BMS	CR-10 CR-10S series CR-10 MINI CR-20 / CR-20 Pro Ender 2 Ender 3 / Ender 3 V2 Ender 3 / Pro Ender 5 / Ender 5 Plus Enter 5 Pro
вмо	Compatible with all V6 hotend interfaces Prusa I3 MK3/MK3S Titan extruders BMG extruders

To view the version of this Dragonfly Hotend product, see the information on the packaging.

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This user guide helps you get started using Dragonfly Hotend And discover all the amazing things it can do on a 3D printer

Supported 3D Printer Models

1. Insert the bowden collect i adaptor, and stick the collect c bowden collect and the adapto collect.





 Assemble the heat sink rib through the threaded end at the bottom of the heat break, to the middle of the heat break (Make sure the side of the countersunk hole of the rib is toward the threaded end).



 Screw the heat break into the side - A of heat block by using 5mm open - ended wrench (Attention: Side - A of heat block should be completely attached to the heat break).



4. Put the heat break and heat block into the heat sink (Attention: Ensure that the holes on the rib are aligned with the threaded holes on the heat sink, and the direction of the countersunk holes on the heat sink are consistent with the direction of the heating rod holes on the heat block).



 Put two M1.4 screws into the rib and use 1.27 hexagonal bar for locking.



M3 head screws into the correct holes use of the heat block respectively by any 1.5 hexagonal bar.



7. Put the silicone sock onto the heat block.



8. If a glass ball thermocouple is used, the thermocouple should be first put into a brass tube (brass tube as shown below), and the port should be sealed with a thermal conducting adhesive (attached), then put it into a heat block, and be secured with a jackscrew.





Hot - Tightening

 Hot - tightening is the last mechanical step before Dragonfly Hotend is ready! This is used to sealing the nozzle and the heat break and ensuring no leakage of molten filament during printing;

 Set the temperature of Hotend at 285°C by using your printer's control software (or LCD screen), then wait for one minute after the Hotend reaching 285°C, to make all components reach the same temperature;

3. Hold the heat block with a 12.0mm open ended wrench while fastening the nozzle gently, then eventually tightening the nozzle by using a 7.0mm open - ended wrench. This will make the nozzle and the heat break attached tightly and ensure no leakage from the Hotend;

4. The tightening torque of the hot nozzle is about 2.5 Nm, which is about the pressure exerted by a finger slightly on a small wrench.

ATTENTION: Do not touch the hotend directly with your hands during heating and within a period of time after heating.

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