Phætus®

DA S Dragonfly BMO Hotend Assembly Instructions

Thank you for buying Phaetus Dragonfly BMO Hotend.

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Product Appearance Product Features

Delicate appearance modeling Superior thermal isolation of heat break Exclusive Choice for High Configuration conical design for efficient heat dissipation High temperatu resistance

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.

Hevagon ber (1.27/1.50/2.00 each) Open werech (Smm/1/arm each) 11/1.4 Inner heurens "2 pos M2.5 Hevagon socket head acrews "4 pos M3 Fastening screws "2 pos Collect dig "1 pos Brass tube "1 pos Brass tube "1 pos Silicone sock "1 pos Thermal conductive silicone "1 pos 02

Specifications

Product Name: Dragonfly® BMO Product Size: 49mm*21mm*24mm Nozzle Diameter: Can be matched

arbitrarily Color: Blue / Black Product Net Weight: BMO 38g

Parts & Accessories

Product Exploded View

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Heat sink

Silico

03

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- Heat break

Rib

-M1.4 Screw -M3 Screw

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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.

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 BMS Compatible with all V6 hotend interfaces Prusa I3 MK3/MK3S вмо Titan extruders BMG extruders

To view the version of this Dragonfly Hotend product , see the information on the packagin www.phaetus.com

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Supported 3D Printer Models Dragonfly Hotend is compatible with the following models (including but not limited to) :



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Welcome Willkommen

nis user guide helps you get started using Dragonfly Hotend d discower all the amazing things i can do on a 3D printer

Assembly Steps 1. Insert the bowden collect into the top of the adaptor, and stick the collect clip between the bowden collect and the adaptor to fix the bowden collect.

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Y 2. Fix the adaptor onto the heat sink.

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3. 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 countersumk hole of the rib is toward the threaded end).



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



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

5. Assemble the heat break into the heat sink and adjust its position, so that the side plane of the heat sink, which close to its threaded hole, and the 2 through holes on the heat block, are align with the 2 holes on the heat sink.



7. Screw two M3 head screws into the correct holes on the B - side of the heat block respectively by using 1.5 hexagonal bar.

6 8. Put the silicone sock onto the heat block.



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9. 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.

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3. Hold the heat block with a 12.0mm open - ended wrench while fastering the nozzle gently, then eventually tightening the nozzle by using a 7.8mm open ended wrench. This will make the nozzle and the heat break attached tightly and ensure no leakage from the Hotend;

Hot - Tightening

1. 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; Phaetus © 2020 Phaetus. All rights reserved. phaetus.com

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Every effort has been made to ensure that the information in this manual is accurate. Phaetus is not responsible for printing or clerical errors.

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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