

H2 V2S REVO User Manual

Basic Parameters

- Extrusion Method: Dual Gear Extrusion
- Maximum Printing Temperature: 300°C
- Weight: 198g (including the fan.)
- Maximum Extrusion Force: 7.5kg (depending on the filament.)
- Extrusion (based on the existing): 1800mm³/min (depending on the filament.)
- E step: 932/mm at 16 microstep (Further calibration is recommended.)
- Rotation distance: 3.433
- Recommended Motor Current: 800mA
- Gear Ratio: 7:1
- Drive Gear Circumference: 24.5mm
- Filament Diameter and Tolerance: 1.75 ± 0.05mm
- HeaterCore Power: 40W
- Voltage: 24V
- Thermistor Type: Semitec 104NT-4-R025H42G(NTC100K)

Note: Not compatible with standard NEMA14 motor.

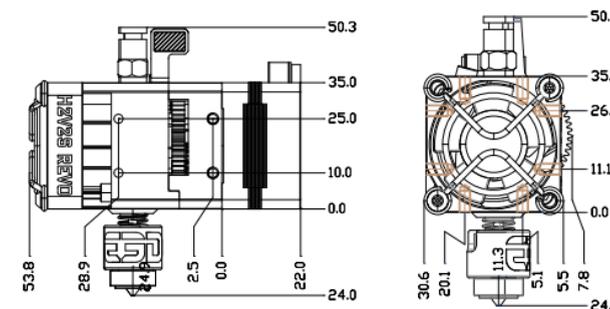
Main Features of RapidChange Revo

- Ready for Revo. Change nozzles at room temperature using just your fingers. No complex tools, no hot tightening. Revo Nozzles are a factory sealed nozzle and heatbreak in one, so they're easy to fit and can't leak material when in use.
- New hotness. A Revo HeaterCore heats up in seconds. It's much safer too - unlike other solutions on the market, a positive temperature coefficient (PTC) means the Revo HeaterCore can not melt at extreme temperatures: power reduces as it gets hotter, so hazards are reduced in the event of a thermal runaway.



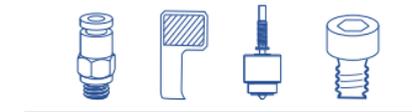
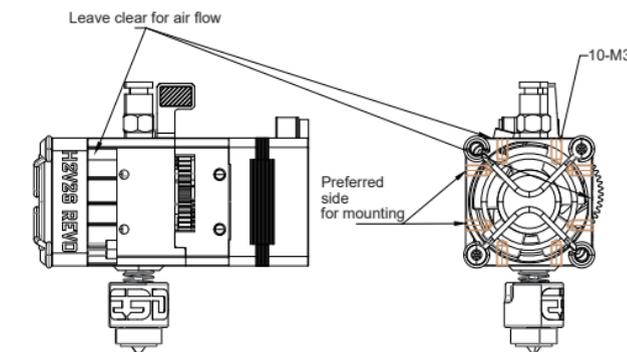
Product Dimensions

- XYZ Dimensions(including the fan): 75.8 x 38.4 x 74.2mm
- Thread of Heat Break: M4
- Nozzle Diameter: Φ0.4mm



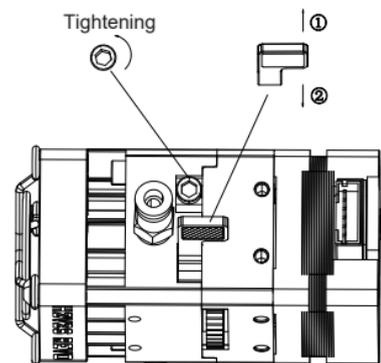
More Guidance

- It is recommended to install the fan toward the left; if toward the right, pay attention to the gear and air vent. There are 10pcs M3 screw holes on the extruder for fixing.
- The M3X8 screws provided are suitable for mounting plates with a thickness of 3~5mm.



About Filament Tension and Filament Release

- Drive gear tension is adjustable to accommodate different material filament, turn the Tensioner Screw counterclockwise to increase pressure, clockwise to decrease pressure(when the screw stops turning, Do not force it or you will damage the extruder.)
- To release the filament, pull the lever towards the position of ② in the picture below.



Maximum Operating Temperature

- Fan: 50°C
- Motor: 130°C
- Heater Break and Nozzle: 300°C(upgradable to 500°C with high temperature of Revo Nozzle and HeaterCore)
- Bearing: 100°C

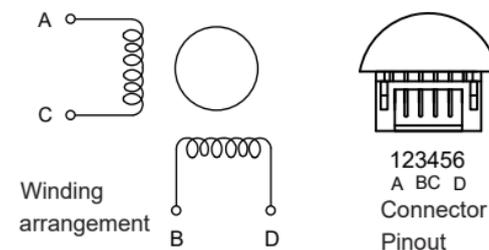
*Note: it is the maximum working temperature of a single part, not of the whole system.

Fan Specifications

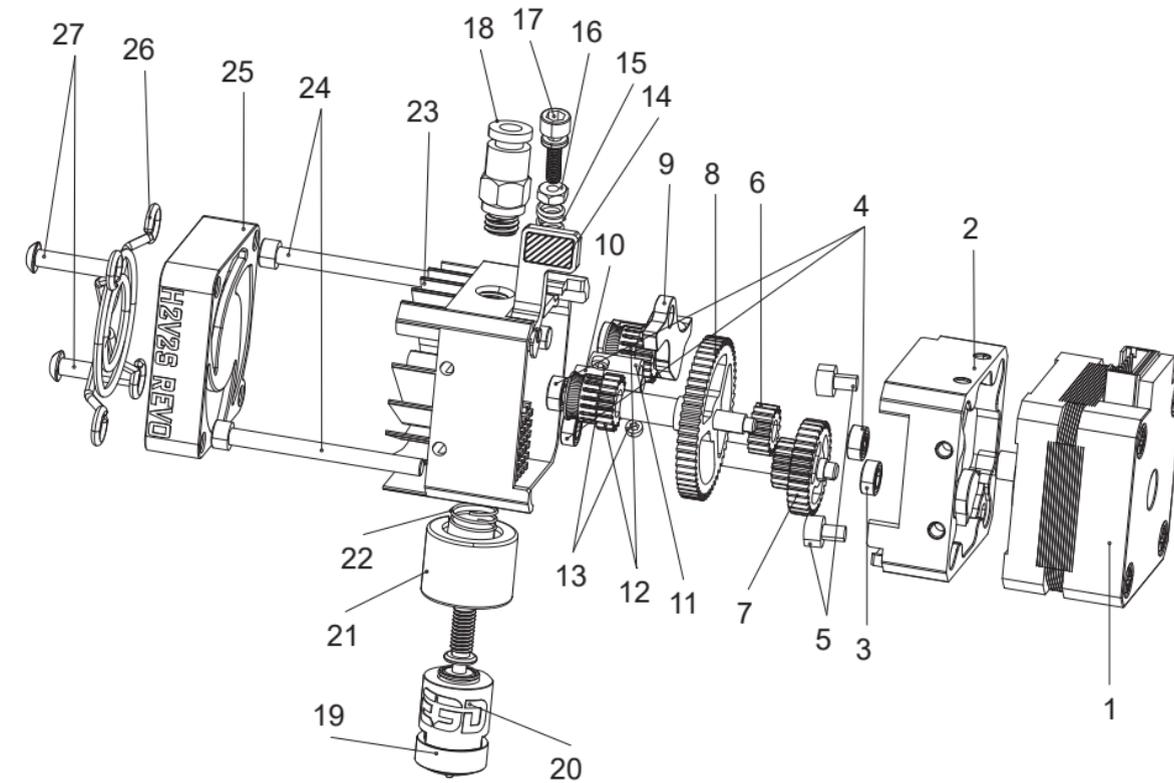
Item	Specifications
Size	35 x 35 x 10mm
Cable	1000mm
Voltage	24V
Speed	6000±10%
Terminal Model	Dupont 2.54

Motor Specifications

Item	Specifications
Rated Voltage	DC 3.45V
Rated Current	DC 1.5A/phase
Phase	2
Winding DC Resistance (25°C)	2.3X (1±10%)Ω
Winding Inductance	2.0X (1±20%) mH
Holding Torque	≥110mN·m
Positioning Torque	7mN·mREF
Insulation Resistance	≥100MΩ (DC 500V)
Insulation Level	Class B
Moment of Inertia	8g·cm ³



Product Overview



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|----------------------------|-----------------------------|
| 1. Motor | 15. Spring |
| 2. Gearbox | 16. M2.5 Nut |
| 3. 682XZZ Bearing | 17. Tensioner Screw |
| 4. 673XZZ Bearing | 18. Bowden Tube Connector |
| 5. M3x4 Socket Head Screw | 19. Revo Nozzle |
| 6. Pinion Gear | 20. HeaterCore |
| 7. Spur Gear | 21. Silicone Sock |
| 8. Output Gear | 22. Revo Spring |
| 9. Gear Carrier | 23. Heat Sink |
| 10. Pin | 24. M3x35 Socket Head Screw |
| 11. Roller Bearing | 25. 3510 Fan |
| 12. Idler Gear | 26. Fan Shroud |
| 13. Set Screw | 27. M3x14 Button Head Screw |
| 14. Filament Release Lever | |