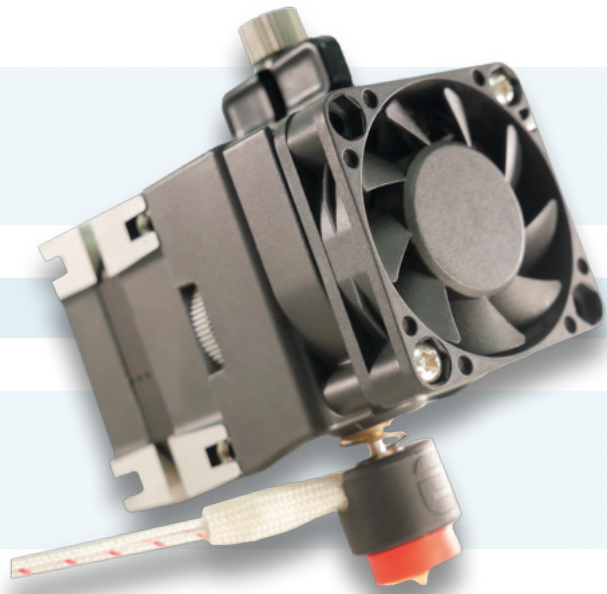




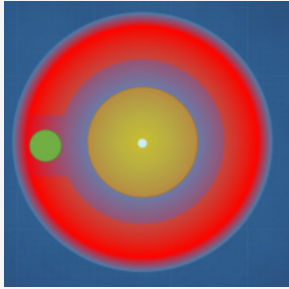
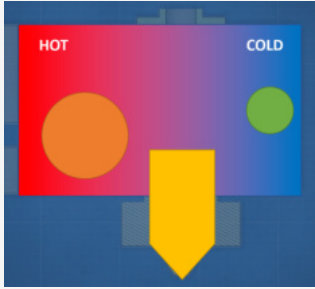
NEW TUMAKER EXTRUDER

Hemera Revo XS



Technical Comparison

Hemera Revo XS vs Dart

Technical Description	Hemera Revo XS (new)	Dart (old)
Type of head	Direct Drive	Bowden / Direct Drive
Available nozzles	0.15 / 0.25 / 0.4 / 0.6 / 0.8	0.4 / 0.6 / 0.8 / 1.2
Nozzle Change	Fast, no adjustments	Medium, with adjustment
Filament diameter	1.75mm	1.75mm
Operating voltage	24v	24v
Maximum temperature	300°C	300°C
Power	40W	70W
Thrust motor	1.4A (Peak)	1.7A (Peak)
Internal reducer	Yes	No
Volumetric flow rate (Nozzle)	10-15mm ³ /s	5-8mm ³ /s
Air flow (Vent. Piece)	6.5 CFM	2x 1.2 CFM
Max. geometric working angle	50 °C	30 °C
Homogenisation of temperatures		
Thrust distance to material outlet	43 mm	BW NX (830mm) BW BF (1550mm) DD NX y BF (132mm)



Comparative analysis Hemera Revo XS vs Dart

When comparing the parameters of the two extruders, there is a clear improvement in energy consumption, not only consuming less, but also being able to reach the same temperature and deliver a higher volumetric flow rate. The integrated gearbox of the new die provides higher flow accuracy, which translates into higher quality printed parts.

In addition, the distance between the extruder and the material outlet is shorter, which significantly improves the quality of shrinkage and the efficiency of the process. Piece cooling has also been improved thanks to a higher flow rate, allowing the creation of parts with sharper angles and smaller details.

In terms of ease of use, the new head does not require meticulous adjustment between the nozzle and the tee tube, making it simpler to use and more accessible.

In short, all these improvements translate into higher quality final parts and better performance, making the new head an excellent choice for any 3D printing project.