

Flowrate Test of Phaetus Rapido Hotend

Test Conditions

Printer: Creality CR-10S modified with 24V PSU and Klipper firmware

Hotend: Rapido UHF Hotend

Extruder: Dual Direct Drive Extruder Upgrade Kit for CR-10S

Slicer: PrusaSlicer 2.3.0

Test Results

Model: Cylindrical Diameter=250mm, Height=150mm

Slicer Setting: Singel wall vase mode with 0 bottom layer

Nozzle Size: Volcano ϕ 1.0mm + Melt Zone Extender

Filament: Generic PETG 1.75 @250C

Printing Speed: 100-110MM/S

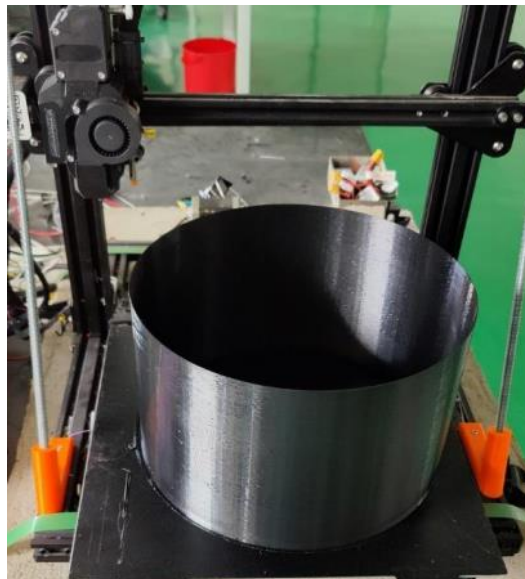
Extrudtion Width: 1.13mm

Layer Height: 0.5mm

Part Weight: 138.5g, 109.06 cm³

Print Duration: 39M40S

Volume of Rapido UHF Hotend: 2749.05 mm³/min or 45.82 mm³/s



Test Conditions

Printer: Creality CR-10S modified with 24V PSU and Klipper firmware

Hotend: Rapido HF Hotend

Extruder: Dual Direct Drive Extruder Upgrade Kit for CR-10S

Slicer: PrusaSlicer 2.3.0

Test Results

Model: Cylindrical Diameter=250mm, Height=20mm

Slicer Setting: Singel wall vase mode with 0 bottom layer

Nozzle Size: V6 \varnothing 0.8mm

Filament: Generic PETG 1.75 @250C

Printing Speed: 72MM/S

Extrudtion Width: 1.20mm

Layer Height: 0.6mm

Part Weight: 21.2g, 16.69 cm³

Print Duration: 394S

Volume of Rapido HF Hotend: 2543 mm³/min or 42.38 mm³/s