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Compact Extruder for Research, Recycling & Composite Development

The Aster C is a compact, high-temperature filament extruder engineered for labs, R&D teams, and makers working with advanced polymers and composites. Combining industrial-grade materials, fine-tuned control, and intelligent design, it delivers reliable extrusion performance in a benchtop form.

Specifications

Temperature Range	Room Temperature to 450°C
Number of Heaters	3 Ceramic Type Band heaters
Heating Zones	4 Zones Feeding Zone, Compression Zone, Metering Zone and Mixing Zone
Screw Type	Single, screw design with a specially engineered mixing zone, enabling Aster C to excel at extruding both recycled polymers and composite materials.
Screw Length	340 mm
Screw Diameter (max)	25mm
Screw Speed	0-100 rpm
Screw Drive Mechanism	Stepper motor
Filament Diameter Range	0.5 mm to 3 mm, user definable
Speed Tuning of Puller and Spooler	Automatic with manual override option available

Filament Diameter Sensing	Mechanical sensor within 50 microns accuracy
Screw/Barrel Material	Screw: EN41B, nitrided and chrome plated Barrel: EN41B case hardened
Filament Cooling	Air cooled only
Filament Extrusion Direction	Vertical
Compatible Materials	All extrusion-grade, non-corrosive thermoplastics Filler materials: CF/GF/metal powders, natural fibers, additives, colourants, surfactants, etc. <i>Strictly no thermosets, strictly no PVC</i>
Hopper Capacity	> 2.5 Litres
Spool Size and Type	> 3 kg spool capacity
Power Requirement	Single Phase, 230V 50Hz AC Peak Power Consumption ~1500W
Physical Specs	Tabletop compact extruder, ~35 kg 250 mm × 590 mm × 910 mm
Spool Holder	Collet-type spool holder
GUI	Windows PC (not quoted standard with machine, must be arranged by user)
Data Logging	Data logged on GUI. Future firmware updates will improve data access

