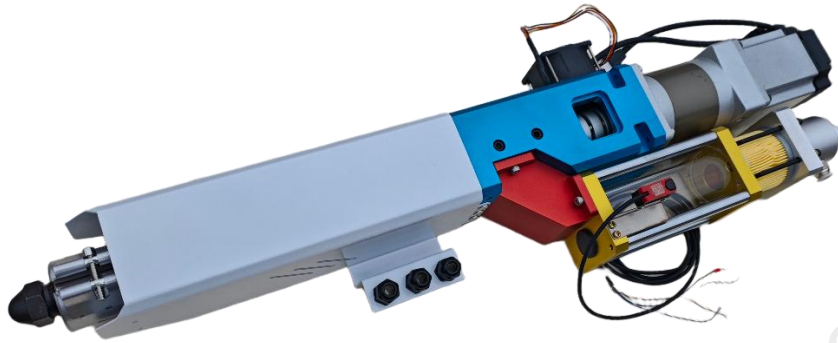


3D Printing Pellet Extruder Ultra 2 Intro



Extruder + Servo Controller

1. Overview

The 3D Printing Pellet Extruder Ultra 2 is a high-performance upgrade for industrial additive manufacturing. It enables direct pellet extrusion for continuous 3D printing. Compared to filament systems, Ultra 2 significantly reduces material cost and expands material options.

Ultra 2 features a new touchscreen control system and an automatic feeding module, delivering higher automation and stable long-duration operation. It is ideal for large-format printing, continuous production, and industrial applications.

2. Feature

- 2.1. **Touchscreen Control.** New touchscreen interface for simple and efficient operation. Supports 0–10V analog control for precise speed adjustment and easy system integration in automation setups.
- 2.2. **Automatic Feeding System.** Integrated pellet feeding and conveying system enables continuous material supply. Feeding capacity up to 7 kg/hr, reducing manual work and improving stability for long runs.
- 2.3. **Dual-Zone Heating.** Independent dual heating zones provide uniform temperature control. Max temperature up to 400°C, improving consistency for engineering materials.
- 2.4. **High-Precision Screw.** Special alloy steel screw with vacuum heat treatment and $Ra \leq 3.2 \mu\text{m}$ surface finish. 1:18 L/D ratio ensures strong mixing, stable extrusion, and consistent print quality.
- 2.5. **Wide Material Range.** Supports PLA, HIPS, PETG, ABS, and engineering plastics for prototyping and industrial production.
- 2.6. **Compact Industrial Design.** Rigid and lightweight structure for desktop and industrial integration. Modular design allows flexible installation and system expansion.

3. Specs

Carton Dimensions	W100×D48×H46 cm	G.W.	29 kg
Product Dimensions	W90×D40×H40 cm	Total Power	3 kW
Extruder N.W.	16 kg	Heating Power	2 kW
Controller N.W.	5 kg	Max Temperature	350 ±2°C (upgradable to 400°C)
Heating Zones	2	Hopper Capacity	350 ml
Power Input	220 V, 60 Hz	Screw L/D Ratio	1:18
Screw Diameter	Φ25 mm	Nozzle	Standard 1.75 mm
Extrusion Rate	6 kg/hr	Material Range	PLA, HIPS, PETG, modified ABS
Auto Feeding Rate	7 kg/hr	Applications	Robotic arms, large-format 3D printers

4. Standard & Optional Accessories

4.1. Standard Package

No.	Item	Quantity	Description
1	Pellet Extruder Unit	1	/
2	Servo Controller	1	Servo motor and temperature control system



Servo Controller

4.2. Optional Upgrades

Category	Specification	Quantity	Price (USD)
Cable	5 m cable	1	200
Nozzle	3 mm nozzle	1	150

5. Warranty

5.1. Warranty is 6 months; within this period, free parts for non-human damage and remote replacement guidance are provided.

5.2. After warranty, parts are offered at cost or purchase channels will be provided.