

# UBO

## UP-6178B PLC Lab Scale Twin Screw Extruder



### Application:

The lab twin-screw extrusion granulator is used for the mixing and processing of thermoplastic plastic raw materials, plasticized coloring, filling and modification, with uniform dispersion and wide application.

### Technical Parameters:

Yield	About 1~10kg/h (according to the process recipe)
Screw diameter	20, 25, 30, 35 optional
Length to diameter ratio	1:40, other length to diameter ratio (10 to 30 times) optional
Screw steering	Flat same direction
Screw speed	0-120rpm frequency control
Screw	The mandrel is made of 40CrNiMoA chrome-molybdenum alloy special tool steel. The original screw is made of W6M05CR4V2 wear-resistant

	alloy steel with kneading assembly, shearing assembly and rework assembly.
Cartridge	Double-metal material, lining can be replaced with a101 hard alloy wear-resistant inner sleeve, hardness HRC55~60, multi-section cylinder combination according to different functions
Combination method	The screw kit is a modular spiral combination that can be combined according to any material process.
Heating zone	Barrel 5 area cast aluminum heater, head 1 zone heater, stainless steel safety hood
Cooling zone	Soft water circulation cooling system for the entire section of the barrel
Drive System	Gear reduction motor and transmission deceleration and torque distribution integration
Melt temperature	High-precision material temperature sensor monitors melt temperature changes
Melt pressure	0-40Mpa high-precision melt pressure transmission sensor monitors head pressure, interlock control host operation
Feeder	0-50rpm variable frequency speed control screw forced feeding
Electronic control system	PLC programmable color touch screen, human-machine interface operating system, extrusion process can be dynamically displayed and monitored, including temperature control, drive, pressure, interlocking joint control function
power supply	AC380V.50Hz three-phase five-wire
volume	1960*600*1550 (W*D*H)mm
weight	About 325kg