High Mixing Unidirectional Twin Screw Extruder Water Barreling Twin Screw Granulator for Polymer Compounding

Our Product Introduction

Basic Information

- Minimum Order Quantity: 1
- Price: 120000
- Delivery Time: 10-20 work day
- Payment Terms: T/T
- Supply Ability: 100set/year



Product Specification

- Screw Diameter: 65 Mm
- L/D Ratio: 40:1 (44:1 Optional)
- Main Power: 75 KW
- Output Capacity: 180-350 Kg/h
- Control Method: PLC Touchscreen
- Screw Configuration: Co-directional Parallel Twin-screw
- Highlight: **High Mixing Twin Screw Extruder**, **Unidirectional Twin Screw Granulator**, **Water Barreling Twin Screw Extruder**



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Product Description

Product Overview

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This water-barreling twin-screw extrusion granulator features a co-directional parallel twin-screw configuration combined with a water-barreling cooling and pelletizing process, delivering excellent mixing and dispersion performance. It is suitable for the modified granulation of PP, PE, PA, ABS, PLA, PBAT, filled materials, glass-fiber reinforced materials, alloy blends, and other materials.

The water-barreling process is mature and stable, producing pellets with a smooth and uniform appearance. The equipment is simple to operate and maintain, and is widely used in new-material modification plants and plastic recycling and granulation facilities.

Product Description

The complete unit is equipped with a high-torque transmission gearbox. The screw components can be freely configured to suit different formulation processes. The barrel features independent temperature control in each section, while the water-cooling circulation system provides precise temperature regulation.

The upper section includes a stainless-steel weightless feed hopper and an independent cantilever-style PLC touch control console, enabling one-click parameter adjustment. Utilizing a complete process comprising water-barreled outlet cooling and air-drying granulation, the system allows for easy color switching and cleaning, ensures stable production, maintains a low failure rate, and produces high-quality granules. It is a mainstream, mature modified-granulation machine widely available on the market.

Reference Parameters

Standard model specifications are listed below. Customization is available as needed.

Model	SHJ-65 (also available in specifications such as 52/75)
Screw Diameter	65 mm
Length-to-Diameter Ratio	40:1 (44:1 high-mixing length-to-diameter ratio available)
Main Unit Power	75 kW
Output	180–350 kg/h
Control Method	PLC touchscreen control
Supporting Process	Water-drawing cooling + air dryer + pelletizer
Applicable Processes	Filler modification, glass fiber reinforcement, toughening blending, biodegradable material pelletization, and plastic alloy processing

Nanjing Henglande Machinery Technology Co., Ltd.

+86 13813377529 952615433@qq.com extrudergranulator.com

NO.11,Qinghu Road,Hushu Town,Jiangning District,Nanjing,china.