Twin Screw Extruder Recycled LDPE HDPE Flakes Pelletizing Machine 280-380 kg h Factory Price for Plastic Recycling

Our Product Introduction

Basic Information

- Place of Origin: Nanjing, China
- Brand Name: HLD
- Certification: CE, ISO 9001:2015
- Model Number: Customized
- Minimum Order Quantity: 1 Set
- Price: USD 48000-66000 / Set
- Packaging Details: Bubble wrap, stretch film and fumigation-free plywood case for sea shipment
- Delivery Time: 35-45 working days after deposit received
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 20 Sets per Month



Product Specification

- Screw Design: Co-rotating Intermeshing Twin Screw
- Screw Diameter: 51.4 Mm
- L/D Ratio: 44:1
- Main Motor Power: 90 KW
- Screw Speed: 500 Rpm Max
- Output Capacity: 280-380 Kg/h
- Feed Material: Washed LDPE HDPE Flakes, Agglomerates
- Degassing: Two Stage Vacuum Venting
- Filtration: Hydraulic Screen Changer With Laser Filter Option
- Pelletizing System: Water Ring Pelletizing With Dewatering
- Bulk Density Range: 150-450 Kg Per Cubic Meter
- Control System: Siemens PLC With Torque Feedback Control
- Highlight: **recycled LDPE HDPE flakes extruder**, **twin screw extruder plastic recycling**, **hydraulic screen changer pelletizing line**



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Product Description

Design for variability, not for an ideal feedstock

Recycled flakes are never the same twice. Bulk density swings with film thickness and moisture, contamination ranges from sand to paper labels, and melt index drifts between bales. A recycling line that is tuned for one delivery will run badly on the next. The right question is not how much it produces on a good day, but how little it drifts on a bad one.

Feed zone first

The feed section uses deep flights and a widened throat to handle material between roughly 150 and 450 kg per cubic meter without bridging. A torque feedback loop watches gearbox load and trims the feed rate automatically, which is what keeps output stable when flake quality changes mid shift.

Removing what should not be there

Two vacuum vents pull moisture and printing ink volatiles; the first is atmospheric and takes the bulk, the second runs under vacuum for odour sensitive applications. A hydraulic screen changer follows, with a laser filter available when the pellets have to pass a film line. The laser filter removes contamination below 100 microns and is the single biggest quality upgrade on a recycled line.

Series data

Model	Screw Diameter	L/D	Motor Power	Screen Changer	Capacity
TSE-20B	21.7mm	40:1 44:1 48:1 52:1	4/5.5/7.5KW	Hydraulic	5-20KG
TSE-35B	35.6mm	40:1 44:1 48:1 52:1	18.5/22KW	Hydraulic	60-100KG
TSE-50B	51mm	40:1 44:1 48:1 52:1	45/55KW	Hydraulic	150KG
TSE-65B	**62.4mm**	**40:1 44:1 48:1 52:1**	**75/90KW**	**Hydraulic**	**250-350KG**
TSE-75B	71.5mm	40:1 44:1 48:1 52:1	132KW	Hydraulic	500-650KG

Shaded frame covers 280-380 kg/h on washed flakes; low bulk density feed may need one frame larger for the same tonnage.

Downstream package

Water ring pelletizing, a dewatering screen and a centrifugal dryer are quoted as one scope, sized to the same throughput. A melt pump is worth adding when flake quality fluctuates strongly, because it decouples die pressure from feed variation.

Operating realities

Wash line quality decides pellet quality more than the extruder does; sand and residual caustic wear screws fast.

Bimetallic elements are the sensible baseline for post consumer material, not an upgrade.

Plan a screen change routine into the shift, even with an automatic changer.

Keep separate recipes for film, bottle and injection scrap; the venting depth differs.

Typical setups

Post consumer LDPE film into reusable pellets, HDPE bottle flake for blow moulding, recycled compounds for garbage bags, and in house scrap recovery for pipe and sheet producers. Output runs 280 to 380 kg/h on the 51.4 mm frame.

Send a sample description: source, washing method, bulk density and contamination type. That tells us more about the right configuration than any tonnage figure.

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