



EXCELLENT DEGASSING AND FILTERING PELLETIZING LINE TT- ASE - PRO

The Excellent degassing and filtering pelletizing line TT-ASE - PRO represents the pinnacle of single screw extruder pelletizing machines, with exceptional degassing and filtering capabilities for recycling.

This cutting-edge Excellent degassing and filtering pelletizing line TT-ASE - PRO sets a new standard in recycling and pelletizing systems, featuring an optimized super-long L/D ratio and a filtering process preceding vacuum degassing. It's specifically designed for processing waste plastics, particularly those heavily contaminated or extensively printed.

Thanks to its remarkable L/D ratio, the single-stage extruder within the production line can function as a double-stage extruder. Following the middle double-piston type screen changer, an additional filter can be incorporated at the end. This dual-filter configuration significantly enhances the quality and performance of the final product particles.

APPLICATIONS

- **Contaminated Plastic Waste:** Re-pelletize heavily printed, dirty, or highly contaminated films and packaging into clean, reusable pellets.
- **Film & Bag Recycling:** Process HDPE, LDPE, BOPP, CPP, OPP films, shopping bags, and packaging waste with consistent output quality.
- **Rigid Plastic Recycling:** Reclaim ABS, PS, PU, PC, and other rigid plastics, turning them into uniform pellets for secondary applications.
- **Industrial Waste:** Reprocess defective molded parts, extrusion waste, and other production scraps into valuable raw material.
- **Packaging Industry:** Deliver high-quality recycled pellets designed for film blowing, tube extrusion, and container manufacturing.
- **Automotive & Electronics:** Recycle technical plastics for use in parts, housings, and electronic components.
- **High-Capacity Recycling Facilities:** Engineered for large-scale operations, with processing capacities from **320 to 2100 kg/h**.
- **Pelletizing Flexibility:** Compatible with water-ring, strand, or underwater pelletizing systems, depending on production requirements.

FEATURES

Typical Features of Extrusion System

TYPICAL FEATURES

Processing section designed with an extended L/D ratio using alloyed screw and barrel materials, supported by a 2-year warranty. Positioned mid-section is a double-piston type screen changer, enabling pre-filtration before vacuum degassing. This improves homogenization and degassing efficiency.

- Large filtering area extends screen life
- Effective for recycling heavily contaminated or printed materials
- Improved volatilization through post-filter degassing

Electrical Cabinet with Rittal Design

ELECTRICAL CABINET

Built to European Rittal standards with IP54 dust and water resistance. Operates on SSR+PLC principles, reducing energy consumption and enabling intelligent system control.

Smart Start System

SMART START

Single-button activation aligned with preset logistics and process requirements. All interconnected modules can be initiated at once, minimizing operator error and improving reliability.

Emergency Stop Function

EMERGENCY STOP FUNCTION

Equipped with an emergency stop system that immediately halts operations in case of unexpected risks during machine operation.

Safety Protection System

PROTECTION SYSTEM

All operating positions and rotating parts are fitted with electrical safety switches, ensuring safe operation and protecting staff during machine use.

Maintaining Plastic Performance

MAINTAINING PLASTIC PERFORMANCE

Consistent pellet quality is achieved through precise temperature control and optimized plasticization design, preserving plastic performance.

Remote Monitoring and Transmission

REMOTE MONITORING & TRANSMISSION

Bluetooth-enabled system allows remote monitoring and data transmission, giving operators full visibility and control from a distance.

TECHNICAL SPECIFICATIONS

Machine Model	TT-ASE-Pro
Target Recycled Material	HDPE LDPE PP BOPP CPP OPP PA PC PS PU ABS Final Product Shape: Particles
Final Product Shape	Particles
System composition	Screw Loader, Single Screw Extruder, Filtration first, Vacuum Degassing, Pelletizer, Water Cooling Device, Dehydration Section, Conveyor Fan, Product Silo.
Output Range	320kg/h-2100kg/h
Feeding Device	Belt Conveyor (Standard), Roll Hualing off device (Optional)
Diameter of screw	100mm-180mm
Material of screw	Bimetal
L/D of screw	50/ 1

Heater of barrel	Ceramic heater or Far-infrared heater
Cooling of Barrel	Air cooling of fans through blowers
Vacuum deashing exhaust	Two Double-zone vacuum degassing system (Standard)
Pelletizing type	Water-ring pelletizing/ water-strands pelletizing/ Under-water pelletizing
Voltage Standard	According to the Voltage of the Customer's Location
Optional device	Metal detector, Roll hualing off device, Masterbatch and additives feeder
Warranty	13 months from the date of bill of lading
Technical services	project design, factory construction, installation and recommendations, commissioning



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