

DEHUMIDIFICATION AND DRYING SYSTEM FOR PLASTIC PELLETIZING MACHINE



After undergoing modified granulation, the raw materials are conveyed to the VOC homogenization deodorization bin using negative pressure. The temperature for deodorization is adjusted to an appropriate level. Meanwhile, within the VOC homogenization deodorizing bin, the raw materials undergo continuous rolling and homogenization, effectively achieving both homogenization and deodorization.

APPLICATIONS

- **Plastic Pelletizing Lines** – Removes VOCs and odors from plastic granules during pelletizing.
- **Compounding Plants** – Produces homogenized, deodorized pellets for consistent downstream processing.
- **Injection Molding** – Supplies odor-free, stable granules for manufacturing high-quality molded parts.
- **Extrusion Processes** – Ensures pellets are fully dried and deodorized for film, sheet, and pipe extrusion.
- **Recycling Operations** – Enhances the quality of recycled plastic granules for reuse in diverse applications.
- **Packaging Industry** – Delivers deodorized pellets with reduced odor for food-grade and consumer packaging.
- **Automotive & Electronics** – Provides high-purity deodorized granules suitable for precision components.

FEATURES

VOC Deodorization Drying Tower

VOC Deodorization Drying Tower System

Equipment Features

- Hot air diffused into an insulated barrel for deodorizing raw materials

- Fluid mechanics-based barrel design ensures even air distribution and odor removal
- Bottom-blowing air inlet reduces temperature differences, improving deodorization efficiency
- Cutoff suction box prevents blockages and ensures easy pipe cleaning
- Overheating protection device for safety against human or mechanical errors
- Precision temperature controller (D.P.) with PLC program for VOC homogenization and sufficient deodorization time

Cooling Silo

Cooling silo for raw material temperature control

Equipment Features

- Made of S30408 stainless steel for durability, easy cleaning, and corrosion prevention
- Transparent inspection window for monitoring raw materials inside the barrel
- Equipped with a cone diffuser to improve cooling efficiency
- Customizable discharge port height based on customer requirements

Homogenizing Conveying System

Homogenizing conveying system for raw material processing

Equipment Features

- Constructed from S30408 stainless steel for easy cleaning and corrosion resistance
- Transparent inspection window for easy observation of raw materials
- Equipped with a cone diffuser to enhance cooling performance

- Discharge port height customizable to customer requirements

TECHNICAL SPECIFICATIONS

Raw material & formula	Plastic Granules
Final product	Particles after removal of odor
Output capacity	500kg/h 1000kg/h 2000kg/h



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