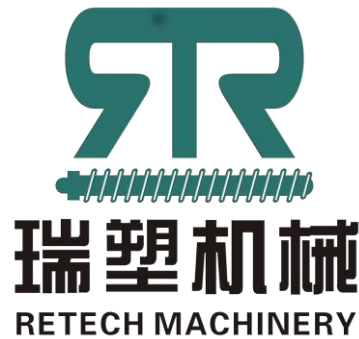


PP Woven Bag&Raffia Recycling Solution



Overview

- PP Woven Bag & Raffia Recycling Solution is a full turnkey plastic recycling system for waste PP woven sacks, jumbo bags, ton bags and raffia scraps.
- The complete line integrates pre-shredding, feeding, crushing, multi-stage friction washing, floating separation, rinsing, squeezing and drying. It removes soil, dust, printing ink, glue and residual cargo contaminants, converting dirty woven bag waste into clean PP flakes for downstream pelletizing.

Applicable Materials

- Waste PP woven bags, cement bags, grain sacks, chemical packaging bags
- Jumbo bags / FIBC big bags, ton bag scraps
- PP raffia, woven tape and PP woven fabric offcuts



Full Process Flow

- **Pre-shredding & Feeding** Single shaft shredder cuts bundled big bags and woven scraps into smaller pieces. Belt conveyor feeds material evenly to avoid winding and bridging.
- **Crushing** Special film/woven bag crusher cuts pre-shredded material into uniform flakes for sufficient washing.
- **High-speed Friction Washing** High-power friction washer scrubs flake surfaces to strip off dust, mud, printing ink and glue residues.
- **Floating Washing & Heavy Impurity Separation** PP flakes float on water; sand, stones and heavy sediment sink to tank bottom and are discharged automatically.
- **Hot Caustic Washing (Optional)** Hot alkaline tank (70–90°C) for heavy ink, oil and stubborn glue, upgrading flake cleanliness.
- **Multi-stage Fresh Water Rinsing** Wash away residual alkali and fine impurities.
- **Squeezing & Dewatering** Squeezer squeezes wet PP flakes, reducing moisture from 30~40% down to 8~12%. Centrifugal dewaterer and hot air dryer are optional for lower moisture.
- **Flake Collection** Clean PP woven flakes are collected and conveyed to pelletizing line.

Core Advantages

- **Anti-tangling design:** Optimized rotor and tank structure specially for high-strength woven bag & raffia material.
- **Efficient ink & glue removal:** Multi-stage friction washing removes printed ink and adhesive effectively.
- **Standard squeezer configuration:** Compress fluffy woven scraps, cut moisture and solve feeding problems for extruder.
- **Circulating water filtration system:** Recycle washing water, lower water consumption and running cost.
- **Modular layout:** Add hot washing unit, metal detector as per raw material pollution level.
- **PLC automatic control:** Stable continuous operation, less labor and easy maintenance.
- **Customizable capacity:** 300kg/h ~ 2000kg/h available.

Key Units:

Film Shredder



Film Crusher



Key Units:

Friction washer



Washing tank



Key Units:

Squeezer Dryer Storage hopper

