



This small bag auto unpacking machine performs automatic bag loading, cutting, separation and discharging in one continuous sequence, replacing manual bag opening and tipper operation. It handles hundreds of bags per hour and suits bagged powders and granules such as limestone powder, quartz sand, cement, fertilizer and food ingredients — particularly where dust levels are high, manual feeding is strenuous, or the material is hazardous or toxic. It is the ideal front-end unit for modern dust-free, automated production lines.

Working Principle: Bags are placed on the conveyor manually or by a robotic arm and enter the bag-opening unit, where two sets of disc cutters slit them into strips. The slit bags and material then pass down a chute into a rotary screening unit: material falls through the screen openings into the hopper below, while empty bags are repeatedly tossed and separated by paddles and guided to the outlet into a waste-bag compactor. Dust generated throughout is filtered by the dust collection unit, keeping the operating area clean.

Key Features

- ◆ Automatic conveying → automatic cutting → screening separation → waste bag compaction, with no manual contact with material throughout
- ◆ Unpacking capacity approx. 300 bags/hour, material particle size ≤ 2 mm, compatible with paper and woven bags
- ◆ Integrated dust collection handles toxic, flammable, highly corrosive or high-dust materials, protecting personnel
- ◆ Optional robotic arm for automatic bag loading, enabling fully unmanned unpacking
- ◆ Simple structure, few wear parts, low power consumption, easy to install and maintain
- ◆ Seamless connection with vacuum feeding and pneumatic conveying systems, integrating into existing production lines

Specifications

Item	Parameter
Unpacking capacity	Approx. 300 bags / hour
Applicable particle size	≤ 2 mm (dry, free-flowing material)
Applicable bag type	Paper / woven bag (20–50 kg)
Installed power	Approx. 11 kW (conveying 1.5 + bag opening 1.5×2 + screening 1.5 + fan 1.5 + waste bag compaction 2.2 etc.)



◆ Selection notes: please provide material name and properties, bag material and specification, and hourly unpacking rate. It can be combined with a bag dump station and conveying system into a complete solution.