

# SYNMEC

## Seed Processing Line

Machines are connected together via elevator and used together as a plant

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**SYNMEC**

The world top Manufacturer Adviser for Grain Cleaning Seed Processing Solutions



## INTRODUCTION

This seed processing line is composed of the 5XZC-5DH Seed Cleaner & Grader, Slope Elevator, 5XZ-5 Gravity Separator and 5XQS-5 Destoner.

The seeds are fed into the 5XZC-5DH Seed Cleaner & Grader; it will remove the dust, light impurity, oversize and undersize impurities before the seeds flow into the first Slope Elevator. Then the seeds are lifted by the Slope Elevator, falling on the Gravity Separator, it will separate the seeds which in same size but different in specific weight (Remove partially eaten seeds, immature seeds, insect damaged seeds, sick seeds and so on). Then the seeds go on being lifted by the second Slope Elevator, falling on the Destoner table, it will remove heavy foreign impurity like stones, metallic and glass pieces etc on the principle of weight difference.

### Feature

- High-efficiency
- Simple operation
- Flexible
- Cost efficiency



5XZC-5DH Seed Cleaner & Grader → 5XZ-5 Gravity Separator → 5XQS-5 Destoner

Note: Now use 5XZ-6 Gravity separator instead of 5XZ-5 Gravity separator, and the 5XZ-5 had been sop production.

## 1. 5XZC-5DH Seed Cleaner & Grader

- Dust cyclone separator
- Movable model suitable for plant, field and remote area working
- Work independently mounted elevator
- Favorable price for promising market demand
- High efficiency and capacity

### FEATURES

Seed cleaner & grader becomes basic and most favourite cleaning machine in seed and grain industry of global market, with high efficiency, excellent performance, and wide application.

It's suitable for processing all kind of seeds, cereals, grains species and crops, such as wheat, paddy, rice, barely, maize, millet, cumin, sunflower seed, soybean, coffee bean, cocoa bean, oil seeds, etc.

Customized sieve layer amount and various machine combinations allow the seed cleaner & grader to be used for a wide range of applications and increase grading efficiency.



### INTRODUCTION

Seed cleaner & grader is used for cleaning and grading seeds, grains, cereals, and other granule products. It can be equipped to suit a variety of special jobs and purposes.

Dust and light impurity are removed by aspirator fan. Material falls on sieve layers and was separated by sieves according to width and thickness difference. All the oversize and undersize impurities were discharged from outlets.

Model	5XZC-5DH
Dimension (L*W*H)	4970×1900×3100 mm
Dimension of each sieve layer	2000×1000 mm
Capacity (count by wheat)	5000 kg/h
Weight	1600 kg
Power	7.74 KW

## 2. Slope Elevator



The motor reducer of the slope elevator is used to keep the elevator with a stable speed, in which way the materials can be transferred sound and safe.



The motor reducer of the Slope Elevator

### APPLICATION

The slope elevator is used to transport the seed or other materials to a certain height with zero damage, when processing seeds or other dry materials.

It is very suited for a broad range of free flowing products in the grain, food, agriculture, pharmaceutical, cosmetic, chemical industry, such as beans, peanuts, raisin, dry vegetables and fruits, confectionary, chemicals and other granules.

- Zero damage
- High-efficiency
- Simple operation

The Slope Elevator belt is rather soft which results in extremely eliminating the damage. Also the sidewall and baffle on the slope elevator can prevent falling and sliding the lifting materials.



### 3.5XZ-6 Gravity Separator

- High performance and durable quality
- Easy installation, operation and maintenance
- Inclination and oscillation adjustable
- Available deck for many different material
- Dust cover available to protect environment
- Deck is designed for optimum distribution of air
- Professional after sales service with technical support



#### INTRODUCTION

5XZ-6 gravity separator is used to separate products with difference in specific weight

The separator works on a fluidized bed principle.

Material is fed on oscillating sieve deck. By the pressure of air & deck oscillation, material is fluidized and stratified.

Heavy fraction sinks into the deck while light fraction suspend in fluidized state.

Deck oscillates causing heavy and light fraction travel in separate paths and collected separately.

#### APPLICATION

5XZ-6 gravity separator is suitable for efficient grading all cereals, grains, pulses, beans and seeds of all crops such as coffee bean, wheat, paddy, barely, maize, millets, sunflower seed, soybean, oil seeds, rice etc.

It can efficiently remove partially eaten, immature, insect damaged sick seed from the seed. To achieve high grading quality of seed, gravity separator becomes the basic machinery for every seed company.

Dimension (L*W*H)	3440×1630×1900 mm
Dimension of sieve table	3000×1200 mm
Capacity (count by wheat)	5000 kg/h
Lateral angle of inclination	0~6°
Amplitude	7mm
Weight	2000 kg
Power	8.95 KW



## 4.5XQS-5 Destoner

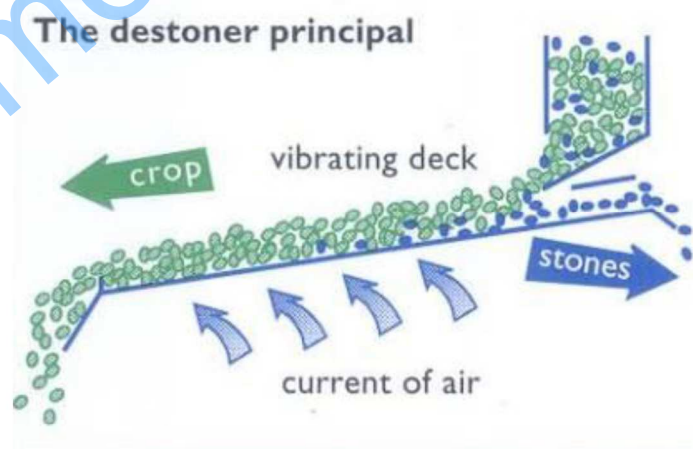


### INTRODUCTION

5XQS Destoner is used to remove heavy foreign impurity like stone, metallic and glass pieces etc on the principle of weight difference.

With the combination of fluidization and deck oscillation, heavy particles migrate to upper levels of the deck discharge from outlets and the light particles move to the lower level of the deck.

- Excellent performance and high capacity
- Wide application for all kinds of seeds, beans, raw materials
- Elevator available
- Durable quality with favorable price
- Easy operation and maintenance



Model	5XQS-5
Capacity	5000 kg/h
Power	7 KW
Dimension (L*W*H)	2500×1560×1600 mm
Weight	700 kg

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Workshops



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Plasma cutting machine	Bending machine	Shearing machine
		



**We can provide over sea machine assembly and staff training services!**



**We have strong production capacity!**



One time produce 6 sets 5XZD-15AC



One time produce 33 sets QSX-85 Destoner



One time produce 40 sets 5XZ-6 Gravity Separator



One time produce 30 sets 5BY-5B Seed Coating Machine



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# Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

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