

INTRODUCTION

This seed processing line is composed of the 5XZC-5DH Seed Cleaner & Grader, DTY bucket elevator, 5XZ-5B Gravity Separator and 5BY -5B Seed Coating Machine and DCS-25S Bagging Scale System.

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 Bucket Elevator. Then the seeds are lifted by the Gravity Separator's DTY bucket elevator, falling into 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 DTY bucket elevator, falling into the 5BY-5B Seed Coating Machine, it will coated the seeds with liquid medicine. Then the seeds go on being lifted by the DTY bucket elevator, falling into the DCS-25S Bagging Machine, it will automatic weighting, and finally packed into the open-mouth bags, and sew them.



5XZC-5DH Seed Cleaner & Grader → 5XZ-5B Gravity Separator → 5BY-5B Seed Coating Machine → DCS-25S Bagging Scale

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



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	7.74KW

2. Elevator

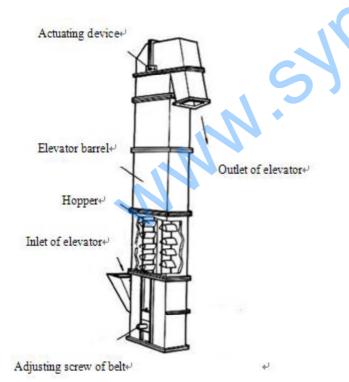
DTY Bucket Elevator

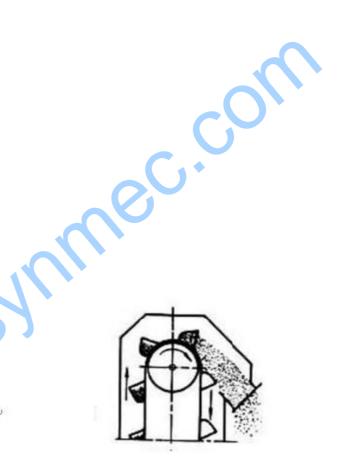


APPLIACTION

DTY series bucket elevator is designed for continuous vertical lifting operation of powdery, granular and small lump. It extensively applies for the lifting of bulk stocks in feeding stuff plant, flour mill, and grain depot of different scale.

- High-efficiency
- Low breakage
- Mobility and Flexibility





3.5XZ-5B Gravity Separator



ADVANTAGE

5XZ-5B model gravity separator is movable machine mounted on feeding elevator can work independently without auxiliary equipment. Suction air system using excellent air distribution make seed fluidized efficiently, meanwhile protect environment, do not need extra dust hood.

As the most popular gravity separator model in China, 5XZ-5A/B gravity separator is widely used in seed and grain industry, with best performance for wheat, maize, corn and other proved by users.

INTRODUCTION

5XZ-5B gravity separator is used to separate seed and grain with same size but difference in specific weight

By air aspiration and sieve oscillation, seed is fluidized and stratified.

Heavy seed sink into the sieve bottom layer, while light seed suspend to the top layer.

After stratified, seed go forward to the discharging part.

Bottom layer good seed and mixture quality seed fall through the sieve discharge from different outlets successively. Top light seed with bad quality was discharge directly Mixture quality seed in the middle layer fall through sieves and return back by vibrate feeding gear

- Movable machine for plant, field working and remote area
- Work independently mounted on elevator
- Suction air system protect environment
- Excellent performance for wheat, maize and corn
- Favorable price for promising market demand

Model	5XZ-5B
Power	9 KW
Weight	1550 kg
Capacity (count by wheat)	5000 kg/h
Dimension of sieve	2000×625 mm
Dimension (L*W*H)	4000×2050×3100 mm

4.5BY-5B Seed Coating Machine

INTRODUCTION

The 5BY-5B series seed coating machine is a good choice for coating seed. It applies for various crops, such as seed of wheat, barley, maize, sorghum, soybeans, cotton, vegetables, fruits etc.



The Soft Auger in cylinder reduces seed damage when mixing seeds and medicine



Measuring pump can adjust the quality and the percentage of the medicine in



- Centrifugal rotary disk for atomizing
- Low seed breakage
- Overload and overheat protection
- Quantitative medicine supply system
- Movable elevator available

WORKING THEORY

Seeds can be continuously fed into cylinder through feeding bucket, at the same time quantitative medicine will be atomized by the high speed centrifugal rotary disk and adhere to the surface of seeds, then the seeds will be completely mixed by the auger in the cylinder. High speed centrifugal rotary disk (for atomizing the liquid medicine) and large stainless steel cylinder (for mixing by auger rolling), can have a good coating effect.

	5BY-5B
mm	2150*800*2600
T/H (count by wheat)	5
KW	2.3
KG	700
%	≥98
%	≥93
%	≤0.1
	T/H (count by wheat) KW KG % %

5. DCS Bag Packing Scale System



INTRODUCTION

The DCS-S bag packing scale system has double weighing system, so its bagging speed is faster than DCS-B Series .And they adopt advanced microelectronic technologies, so provide perfect control and management of the weighing and packing process. It's suitable of packing the granule materials, such as the seed, agricultural product and chemical etc.

ADVANTAGES

- High calculating precision, rapid packaging speed, stable function, easy operation.
- Adopt advanced techniques on control instrument, sensor, and pneumatic components.
- Advanced functions: automatic correction, error alarm, automatic error detection.
- All components which have direct contact with bagging materials are made from stainless steel.

One Semi-automatic bagging scale system includes:

- One Automatic Packing Scale,
- One Elevator
- One Air Compressor
- One Conveyer Belt
- One Bag-sewing machine(or bag heat-sealing machine)

Model	DCS-25S
Metering Range	5-25 KG
Bagging Speed	Over 600 bag/H
Accuracy	±0.2%
Working Temperature	-10℃ ~ +40℃

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Factory view



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