

# SYNMEC

## 5XDC Series Belt Type Separator

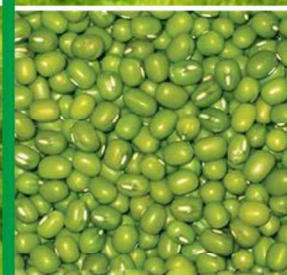
Remove damaged beans from round beans

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# SYNMEC

The world top Manufacturer Adviser for Grain Cleaning Seed Processing Solutions



# 5XDC Series Belt Type Separator



5XDC-5 Belt Type Separator

## Parameter reference:

Model	5XDC-5	5XDC-4	5XDC-3
Capacity (by soybean)	5000 kg/hour	4000 kg/hour	3000 kg/hour
Layer quantity	10	8	6
Power	4 Kw	3 Kw	2.2 Kw
Dimension (L*W*H)	4500×2000x3300 mm	4100x2000x2900 mm	3700x2000x900 mm
Weight	1800 kg	1600 Kg	1200 Kg

## Function:

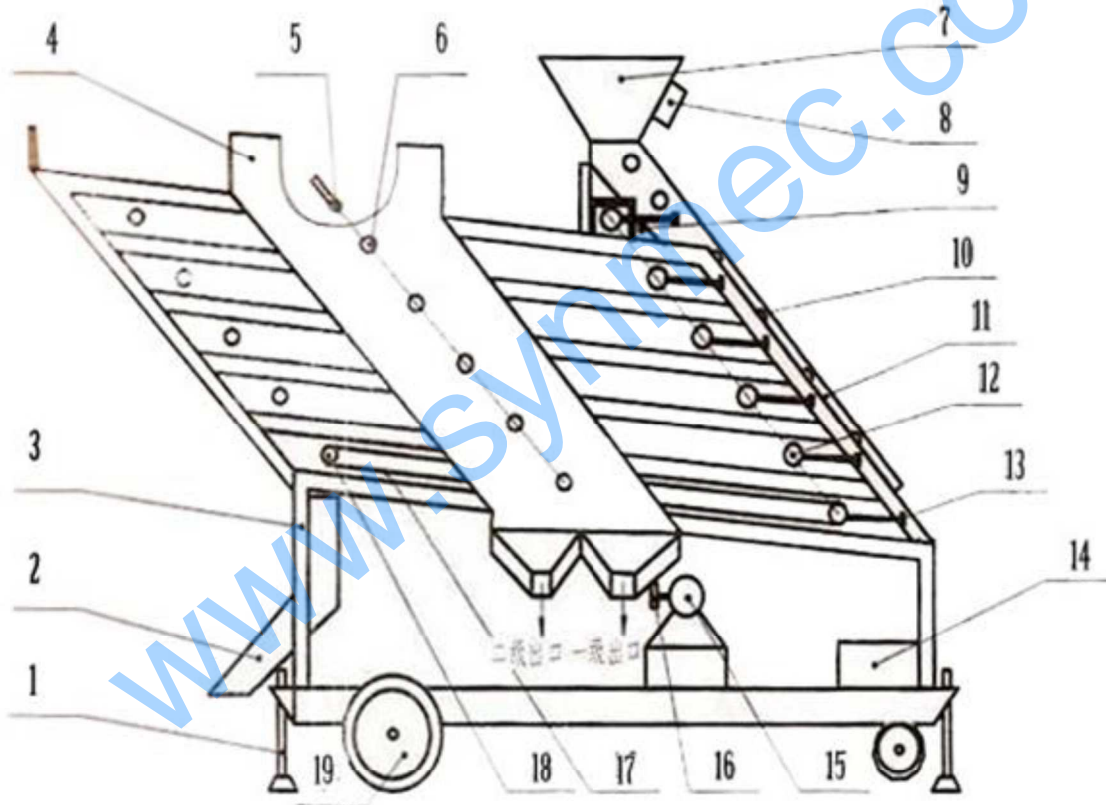
Belt Type Separator is used to remove the half beans, damaged beans, split beans and other irregular impurity from round seeds (as soybeans, mung beans, read beans, etc.).

It brings efficiency round beans separation, and is applied in seed companies, food processing sector and other industries.

## Working principle:

The 5XDC Series Belt Type Separator working principle base on material's different shape and under the function of gravity acceleration, makes the different coefficients of sliding friction and rolling friction on the material (beans), lead to grading the material (beans). After starting work, under acceleration gravity function, material moves in the belt. At the same time impurities will be moved to higher position and collected to impurity outlet, the impurity includes clod, stones, half size seed, blight seed and so on. The good seed has small friction, so will drop to the low outlet. This machine is suitable for processing the round shape seed, such as beans etc.

## Machine Structure:



## Main parts :

- |                              |                               |                     |                                       |
|------------------------------|-------------------------------|---------------------|---------------------------------------|
| 1. supporting pole           | 2. Impurity /bad beans outlet | 3. main frame       | 4. outlet for good seed               |
| 5. material separating plate | 6. observing window           | 7. inlet of divider | 8. material-back-tube                 |
| 9. outlet of divider         | 10. observing window          | 11. divider         | 12. rear axle                         |
| 13. adjusting screw          | 14. tool box                  | 15. speed reducer   | 16. adjusting handle of speed reducer |
| 17. belt (ring form)         | 18. front axle                | 19. wheel.          |                                       |

## Machine Details:

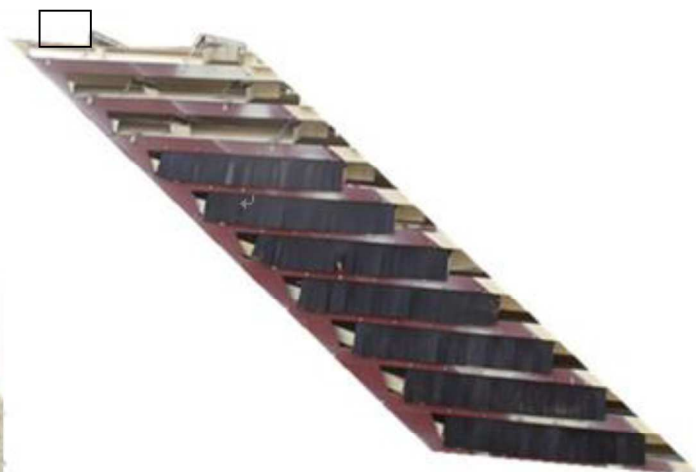
Handrail  
&  
ladders



Each layer use chains to connect.  
One 4 Kw motor drives 10 layers belt rollers.  
Handle on motor is to adjust belt moving speed.



Baffle plates on each layer outlet to separate  
first grade material and second grade material.

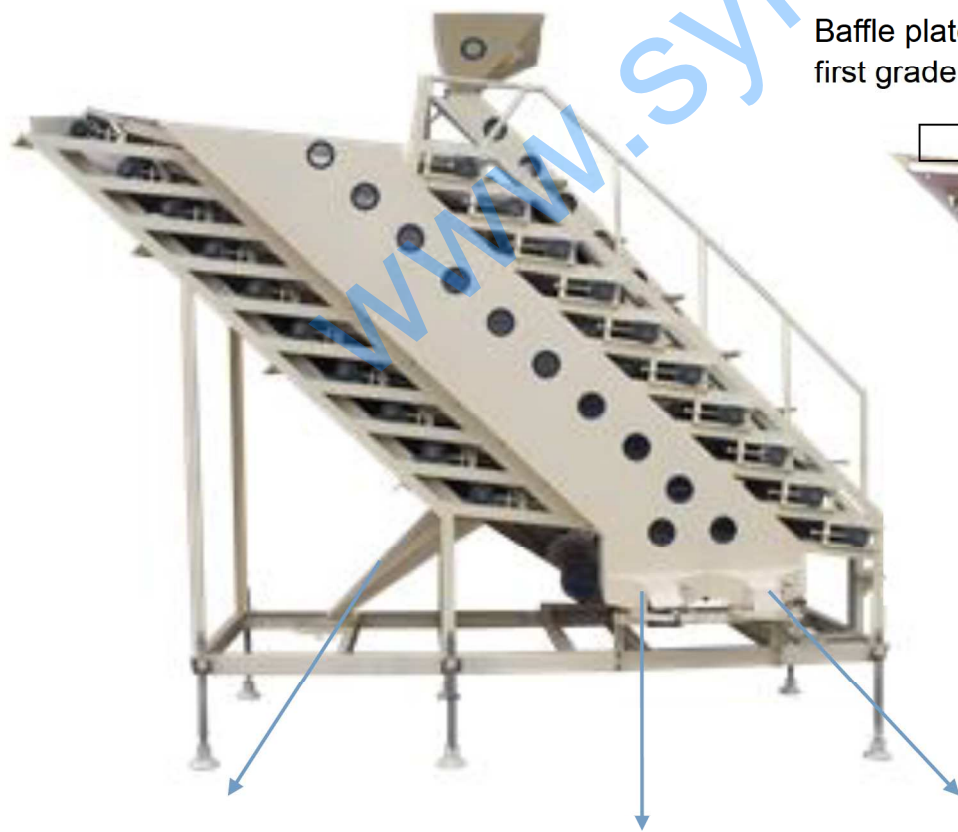


Rubber curtains on  
each layer outlets.

Impurity outlet

Second grade bean outlet

First grade bean outlet





## Machine Details:

The big hopper connects inlets to each layer.

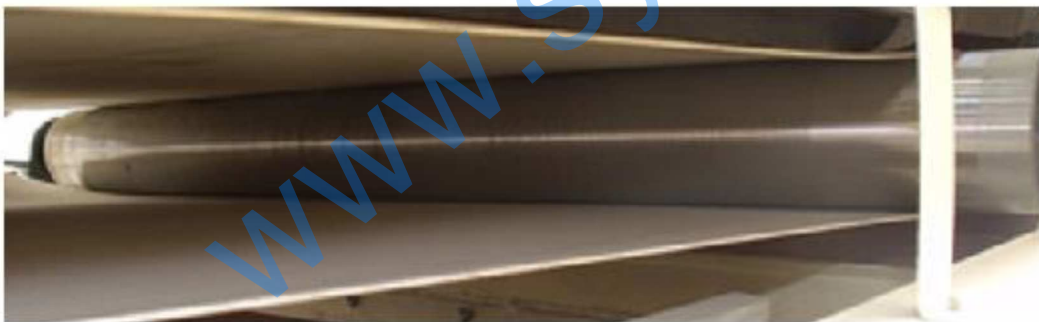
There is observation window AND adjusting plate on each layer inlet.

Adjusting plate is to control beans scatter evenly on belt.

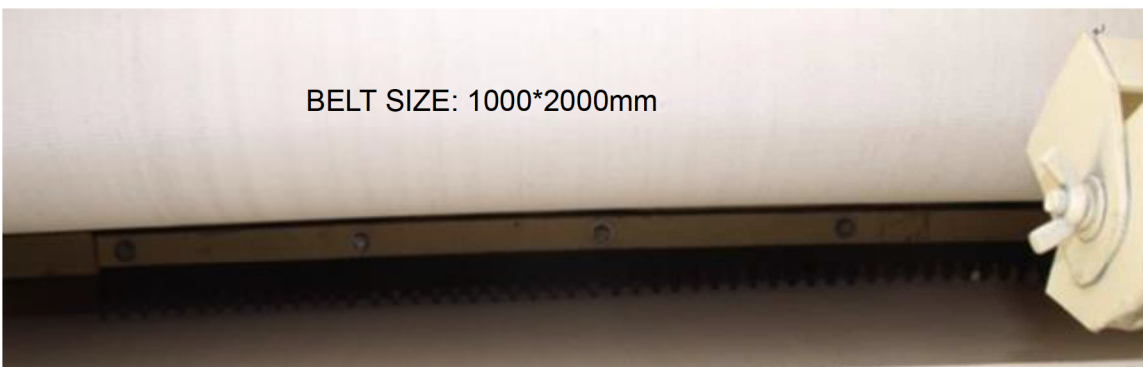


There are 4 bearings on each layer belt end.

Adjusting bearing handle to ensure the belt is well expanded and on track.



BELT SIZE: 1000\*2000mm



There is rubber curtain on each belt layer.

When beans fall to the belt, the beans will pass from the rubber curtain.

Photos of 5XDC-5 Belt Type Separator



Photos of 5XDC-3 Belt Type Separator & 5XDC-4 Belt Type Separator





We are the best choice for you!

## Factory view



We have professional manufacturing equipment!

Drilling and milling machine	CNC lathe	Laser cutting machine
		
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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