

# SYNMEC

## DCS-S Series Bagging Scale System

(Double Weighting Scales)

High efficient and accurate weight scale for packing grain seed beans

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ISO  
9001:2008  
REGISTERED



SGS



BUREAU  
VERITAS



# SYNMEC

The world top Manufacturer for Grain Cleaning Seed Processing Solutions  
Adviser



# INTRODUCTION

The DCS-S series bagging scale system has an ideal weighing system by adopting advanced microelectronic technology, which have double weighting scales, the bagging speed is 1.5 times faster than single weighting scale model.

It's suitable of packing the granule material, such as the seed, agricultural product and chemical etc.

## STRUCTURE OF MACHINE

One Semi-automatic bagging scale system includes:

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



## Technical Data

Model	DCS-5S	DCS-10S	DCS-25S	DCS-50S
Metering Range	0.5-5 KG	1-10 KG	5-25KG	10-50KG
Bagging Speed	Over 800 bag/H	Over 700 bag/H	Over 600 bag/H	Over 400 bag/H
Accuracy	±0.2%			
Working Temperature	-10℃ ~ +40℃			

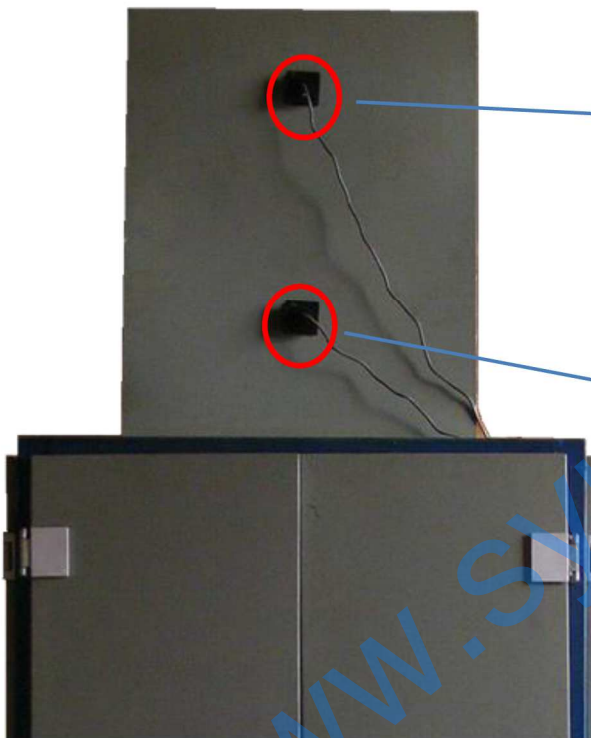
Note: Firstly, you should choose the bagging range, the machine can't weighting 1-50KG. For example, if the bagging range is 10-50kg, we will use 100kg weighting sensor; if you weighting 1kg via the 100kg weighting sensor the standard error will be big.

## TECHNICAL SPECIFICATION

- Accuracy:  $\pm 0.2\%F.S$
- Metering range: 0.5kg-50kg
- Speed(bag/h): 120-400/h
- Zero shift:  $< \pm 0.04V/^{\circ}C$
- Steelyard shift:  $< \pm 10ppm/^{\circ}C$
- Sampling comparison rate: 50 times/sec
- Smallest sub-degrees value: 5

## 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.



### Top material sensor:

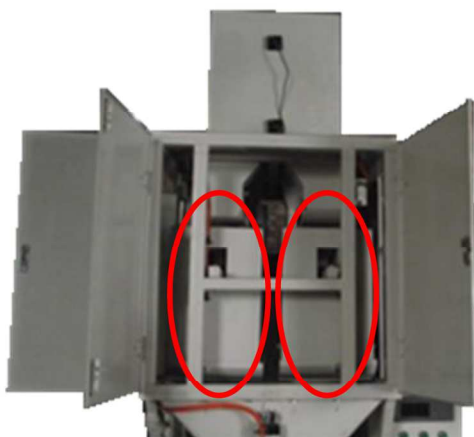
When material reach the upper sensor level, the bucket elevator will stop feeding

### Bottom material sensor:

When material reach the bottom sensor level, the bucket elevator will start feeding

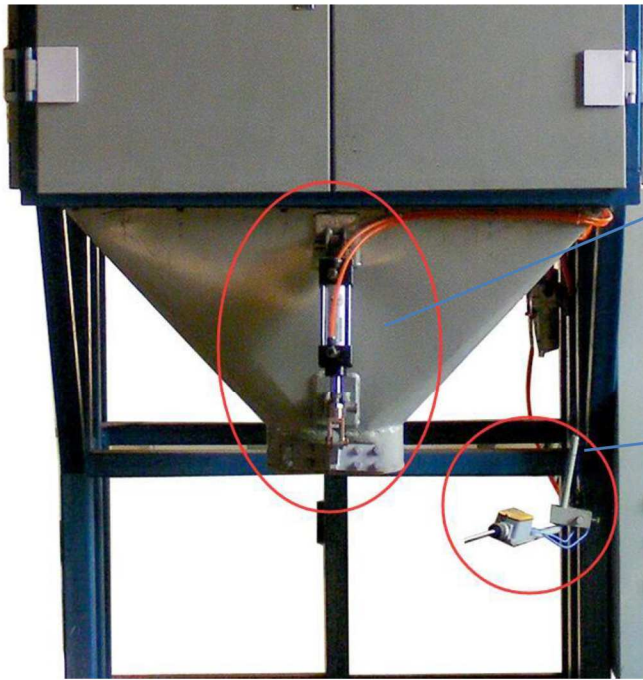
There are two sensors in bagging machine bin. Top material sensor and bottom material sensor.

Big Feeding Hopper in order to put more material at one time.



When material reach the weight of your set, the inlet of hopper will be closed and bottom will drop continually until the right weight.

Double weighting scales that can increase the efficiency of packing.



### **Bags clamping device:**

The strong force can fix 50kg bags firmly.

### **Position limit switch:**

When hand touch it, the bags will be clamped tightly. It is convenient and efficient.

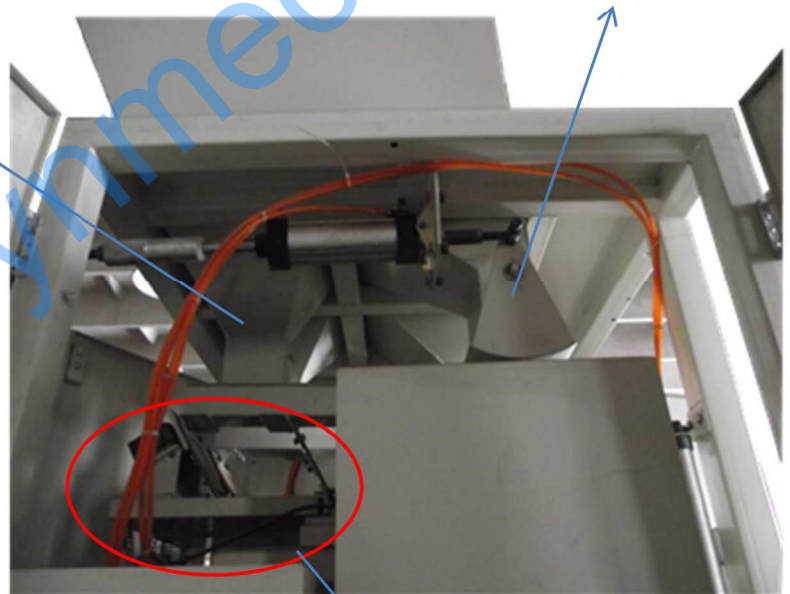


### **Small feeding:**

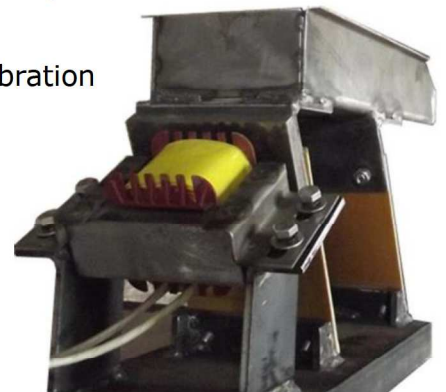
After big feeding end, the small feeding begin work, it use the electromagnetic vibration feeding, which can ensure the feeding accuracy.

### **Big feeding:**

Make material quick falling, when approaching the set value, the big feeding closed and small feeding open

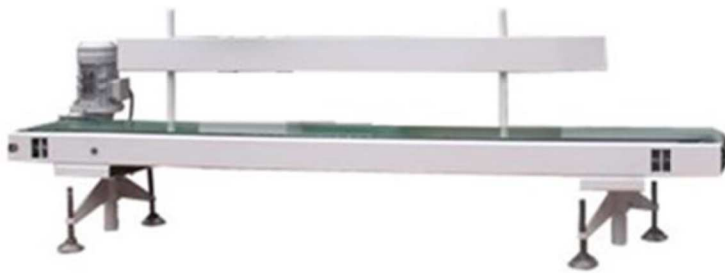


Electromagnetic vibration feeding

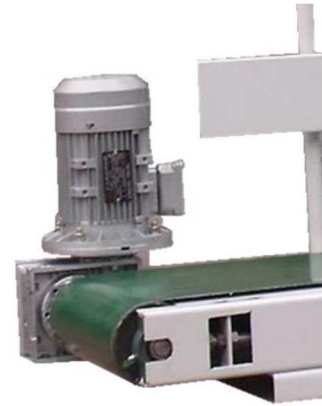


### **Weighting scale:**

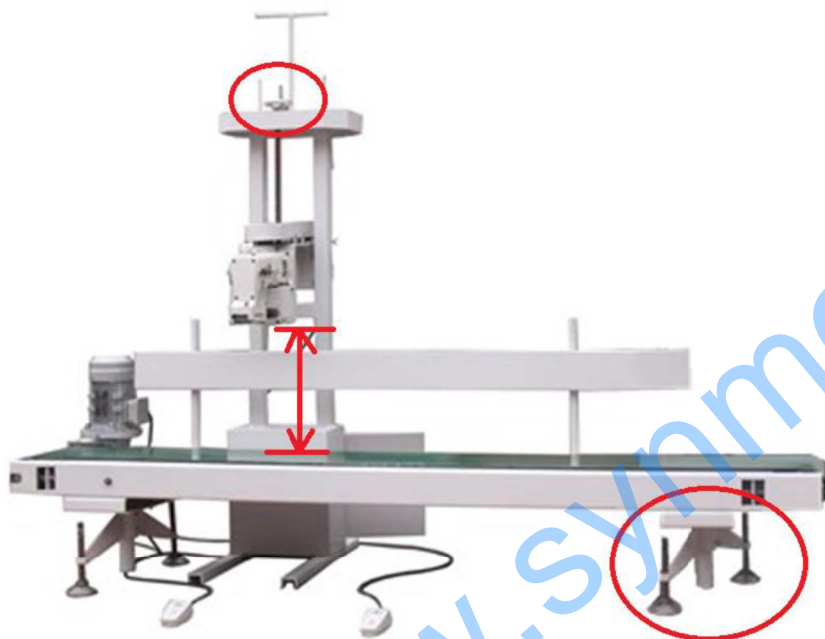
The big and small feeding feed the weighting scale, it has a weighting sensor, when weight reach the set value, the small feeding stop, and then the weighting scale will open by the function of air cylinder



Conveyor belt, it is used for transferring bags from one place to another place.



Gear motor is belong one part of conveyor belt. It is made from China top brand electricity motor manufacturer, which has high quality and aluminous cover.



By adjusting the height of sewing machine and belt conveyor, it can use different size bags.



Foot Switch



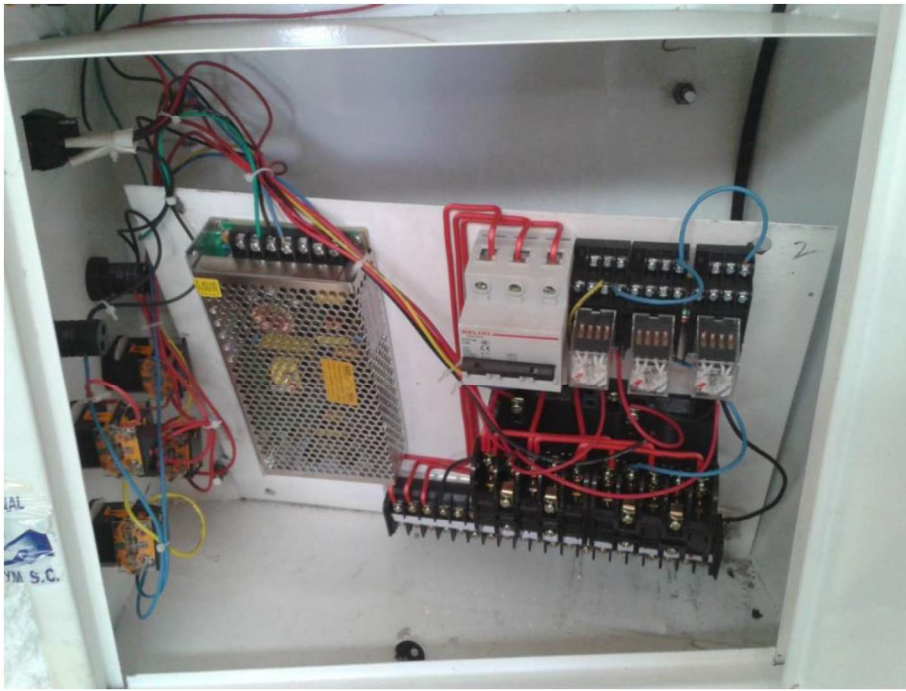
Air Compressor



Accurate Meter Device, it was made from MEIDIA (the China second big manufacturer for device)

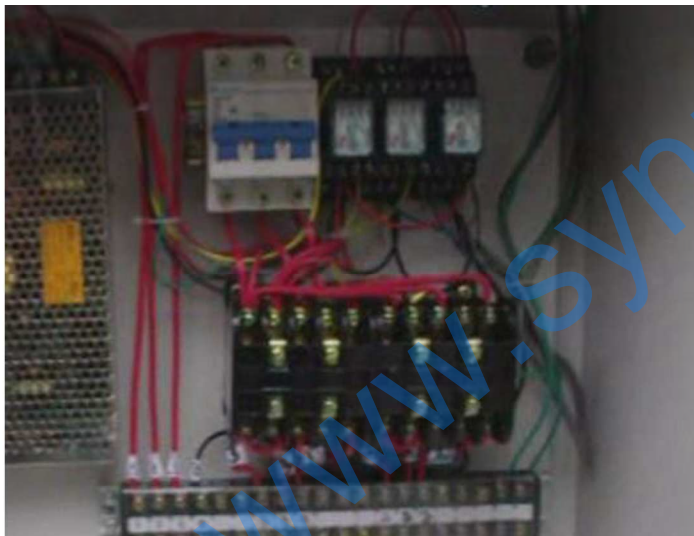


## International standard power distribution



High quality famous brand electric apparatus

Professional wiring mode meets International standard and strict wiring specification



Well Protected by thick lines and lifetime will be more long than you thought and fixed strongly in power box.



Power box for sewing machine, international standard to connecting the electric lines.

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



We have customers all over the world!





# Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

We serve for



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