

# ZDB-900-Q10 Fully-auto Bagging Machine

## i. Product description

ZDB-900-Q10 is a fully automatic high-speed bagging machine for 10-25kg open-mouth pillow and/or gusseted bags for woven PP and paper bags.

It is distinguished by its outstanding speed and reliability as well as its high flexibility to work with all kind of bag types and materials. Due to its technical maturity and several patented modules, the bagging system has become one of the most reliable packaging machines in the world. The bagging machine has been therefore installed in many different industries for packaging products like plastic pellets, animal feed, corn, seed, beans, lentils, sugar, rice and so on.

## ii. The full set includes

| Description                                | QTY              |        |
|--|------------------|--------|
| Auto Bag-giving machine                    | 1 set            |        |
| High speed weighing scale                  | 1 set            |        |
| Packing machine                            | 1 set            |        |
| Conveyor with stitching machine<br>(1 set) | folding machine  | 1 unit |
|  | Stiching machine | 1 unit |

## iii. Main configure:

| Product description                | Configuration                             |
|------------------------------------|---|
| Touch Screen (weighing controller) | Switzerland / Mettler Toledo              |
| Load Cells                         | USA/Celtron                               |
| Power Switch                       | Japan/Omron                               |
| Limit switch                       | Japan/Omron                               |
| Miniature Circuit Breaker          | France/ Schneider                         |
| button、 knob                       | France/ Schneider                         |
| intermediate relay                 | Japan/Omron                               |
| cylinder                           | Taiwan/AirTac                             |
| Electric cylinder                  | Japan/SMC、 IAI                            |
| solenoid valve                     | Taiwan/airtac                             |
| Servo motor                        | Japan/ Panasonic                          |
| Vacuum pump                        | Germany/leybold                           |
| Stitching machine                  | China/Bafang<br>(optional: Japan/Newlong) |

#### iv. Technical Parameters

|                          |                                  |
|--------------------------|----------------------------------|
| Packing speed            | 550-800 bags/hour                |
| Bag range                | Length:580-800; width 260-380 mm |
| Package weight           | 10-25kg                          |
| Applicable materials     | Granular materials such as rice  |
| Air pressure/consumption | 0.4-0.6MPa 13m <sup>3</sup> /h   |
| Power                    | 380/220V 3phase,five wires       |
| Power Consumption        | 6KW                              |
| Bag storage              | 100-300 pcs                      |

#### v. Function and features

1. Double working stations bag giving system. 100-300 bags can be stored.  
There are detectors for alarm if either of working station's bags are finished.
2. There are air pressure detecting devices in the process of picking up the bag, opening the bag , clamping the bag and filling the bag. Unqualified bags will be kicked out automatically without stopping the working.
3. High speed weighing scale.
4. Bag-clamping movement and discharge gate are using two independent systems which make the bag clamping more stable
5. Using the big finger cylinder can make sure the bag mouth to be smooth.
6. It adopts plastic chain plate conveyor belt, gear meshing transmission, which is not easy to slip and deflect; the conveyor belt and the upper guide bag mechanism adopt mechanical linkage to ensure the synchronization of the conveying process.
7. All the major motoring are using servo moters. It's very easy to adjust for different packing specifications, no need manual adjustment.
8. Contact parts in stainless steel
9. Reliable and proven concept; Sturdy and compact design
10. High flexibility
11. Bag magazine bag separation bag opening bag placing bag filling bag closing bag transport
12. Unique, advanced, fast and versatile bagging equipment.
13. Granular materials into open-mouth bags, has no equivalent on the market. The operating principle of this bagger makes it one of the fastest bagging machine in the world. It c

an handle a wide variety of products and bags for optimal flexibility.

14. Minimal bag handling time to allow high speed operation
15. Total control of the bag during the entire cycle
16. Programmable logic controller (PLC) with user-friendly, touch-sensitive operator interface for easy troubleshooting and error code reading
17. Multiple-stack bag magazine for great operating autonomy fast and easy reloading options
18. Tool-less changeover for multiple bag sizes
19. Bag closing systems and weighing system

## vi. Product Photo



## vii. Bag detailed requirement:

### **A: The basic requirements**

1. Double-sided laminated PP woven bag or paper bags
2. If there is plastic handle lifting, the position of it must be at bottom of the bag.
- 3, the front and back hardness of the bag can not be too different (the specific test is subject to the actual test)

### **B: bag size range:**

1. bag length (mm): 580-800 mm  
bag width (mm): 260-380mm
2. after filling rice, the distance between the top of rice and top of bag edge should be over 200mm.(if need folding, the distance should be longer accordingly)
3. Bag with handle lifting (not plastic one), the distance between the bottom opening edge of the handle and bag opening should not be over 55mm. the width should not be over 100mm

### **C: bag examples:**

**10kg PP bag** (gusseted): (unit : mm)

Regular bag range: length:580-620; width:260-290; M width:35-50;

Sample bag reference: LxWxM =600x270x45(without handle, without folding);

LxWxM =620x270x45(with handle)

**25kg PP bag** (gusseted): (unit : mm)

Regular bag range: : length 750-780; width 340-380; M width 45-70;

Sample bag reference: LxWxM =760x350x55 (without folding);

LxWxM=780x350x55 (bottom folding)

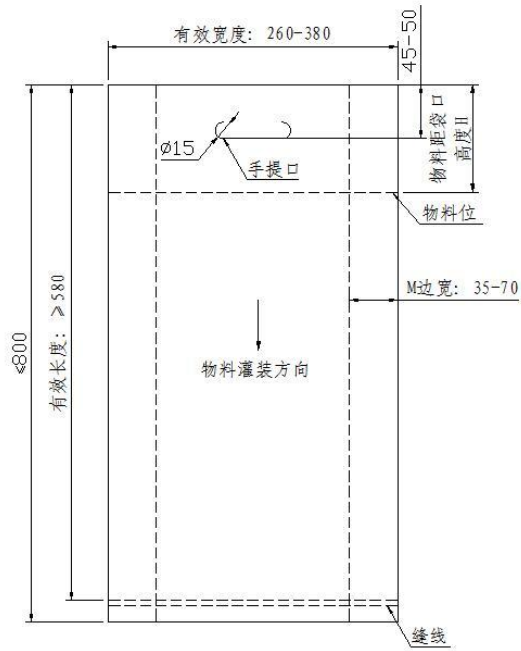
### **D: H requirement:**

**10Kg** without handle, without folding:  $H \geq 180\text{mm}$

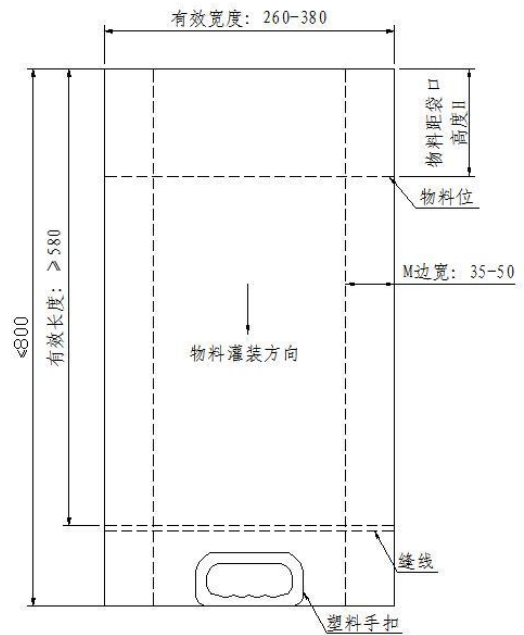
**10Kg** with handle or bottom folding and stitching  $\geq 220\text{mm}$

**25Kg** without handle, without folding:  $H \geq 230\text{mm}$

**25Kg** with handle or bottom folding and stitching:  $H \geq 270\text{mm}$

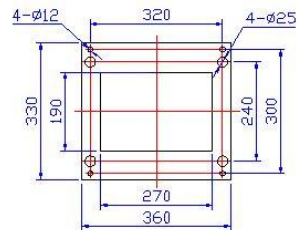
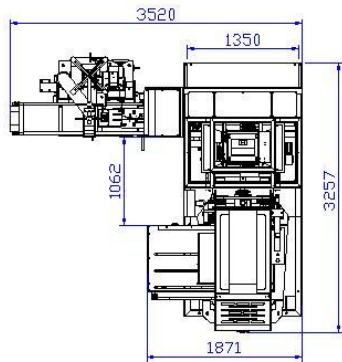
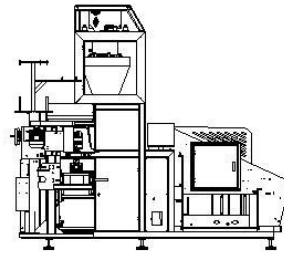
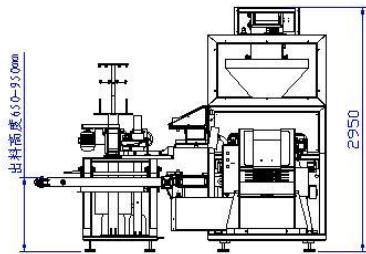


10-25Kg: 双面覆膜编织袋 (单位mm)  
 注: 无手提口、扁平袋 (无M边)  
 有效长度不小于580mm



10Kg: 带手扣双面覆膜编织袋 (单位mm)

### viii. Installation Sizes



料仓法兰尺寸 (1:10)

注明: ZDB-900-Q10包装范围: 10-25Kg, 10Kg出料高度为850mm左右