

1. Introduction

This pellet packaging machine is an quantitative packing machine, it is designed to pack the wood pellets and animal/poultry feed pellets and other granule like grain, cereals and other chemical materials into bags and seal bags, this machine can equip with heat sealer to seal plastic/nylon bags or sewing machine to seal woven bags.

Pellet packaging machine include material tank, weighing hopper, sensor, bag clamping system, heat sealer, sewing machine, sealing conveyor and electric control panel.

Material feed into hopper from conveyor or top storage tank, the weighing hopper and sensor will work under the control of electric panel to weighing pellets according to the packing weight set in the PLC system, after people put bag on bag clamping device the hopper discharge pellets to bags, then use sealer to sealing the bags.

The hopper on this pellet packaging machine is 1 m³ volume, usually it is enough for storage material coming from conveyor, you can put a bigger tank on top of this hopper if you want to install this pellet packaging machine in a production line and want more storage ability.

Weighing system for this packaging machine is sensor, the PLC system control sensor working to weighing the target packaging weight by fast adding, medium adding and slow adding, by three times adding to increase packaging precision.

Pellet packaging machine equipped with pneumatic bag clamping system, after put bag to the filling pipe just push the limit switch so that the clamping system can hold the, at this time the packaging scale start to fill pellets into bags. The bag clamping system is controlled by air cylinder, which need a air compresure with 0.6Mpa air pressure.

The whole weighing process is automatically, only need people manually put bag to the bag clamping system

The whole machine is made of stainless steel, so that the machine is easy clean and anti corrosion if the raw material to be packed have corrosivity, thus to extend the machine lifetime

Automatically control by electric panel:

From electric panel can set target packaging weight want to pack per bag, it can set fast speed add, medium speed add and low speed add, by three times weighing and filling to get the target weight for one bag, thus to make sure the high weighing accuracy with only 0.1-0.2% tolerance.

From electric panel can change to use automatic control packing method and manual control packing method. From the electric panel can check the bags have been packed.

Equipped with sealing conveyor, on the packaging machine main body have a 2 meters length sealing conveyor, thus to help move the bags during packaging and sealing. The conveyor width is 400mm, use PVC belt.

Equipped with sewing machine or heat sealer to seal the bags

The sewing machine is designed to seal woven bags

The heat sealer is designed to seal plastic bags, nylon bags made of BOPP/CPP,BOPP/PE,PET/PE,etc

You can choose this packaging machine with both sewing machine and heat sealer or only with sewing machine or only with heat sealer according to the what kind bags you will use.

2. Technical data

| 2.1 Packing Machine Main Body | DGS50K |
|----------------------------------|----------------------------------------------------------------|
| Weighting range | 10-50Kg or 50-100Kg |
| Packing speed | 4-8 bag/minute |
| Tolerance | static state $\leq \pm 0.1\%$, dynamic state $\leq \pm 0.2\%$ |
| Relative humidity | $\leq 90\%RH$ |
| Packing scale voltage | AC220V/50HZ or customized |
| Packing scale weighing method | sensor |
| Sealing conveyor voltage | AC380V/50HZ or customized |
| Sealing conveyor motor | 0.55 Kw |
| Sealing conveyor length | 2000mm |
| Sealing conveyor width | 400mm |
| Sealing conveyor belt width | 320mm |
| Hopper volume | 1 m ³ |
| Control method | Automatic controlled by electric panel |
| Electric panel control system | PLC system with touch screen |
| Required compressed air pressure | 0.6Mpa |
| Compressed air consumption | 0.5m ³ /h |
| Machine material | stainless steel |
| Whole machine installation size | 1050x880x2150mm |
| Total weight | 480kg |



| 2.2 Sewing machine | Seal woven bags |
|----------------------------|-------------------------------------------------------------------------|
| Sewing speed | 9m/minute |
| | 300-600bags/h |
| Sewing type | stitching |
| Sewing height | 400-900mm adjustable |
| Sewing machine motor power | 0.37kw |
| Stitch type | Double thread chain stitch |
| Sewing bag weight | 10-100kg/bag |
| Max sewing thickness | 8mm |
| Stitch width | 6.5-11mm |
| Needle model | 80800 200#-250# |
| Working speed | 1700 rpm |
| 2.3 Heat sealer | Sealing plastic bags, nylon bags made of BOPP/CPP,BOPP/PE,PET/PE,etc |
| Heating strip quantity | Double heat strip on two sides |
| Sealing type | Heat sealing |
| Sealing length on bag | 650mm |
| Sealing width on bag | 8mm |
| Bag thickness | 0.01-0.4mm |
| Heat sealer power | 1.5Kw |



DGS50K packing machine + sewing machine + heat sealer



DGS50K packing machine + sewing machine



Heat sealer for DGS50K

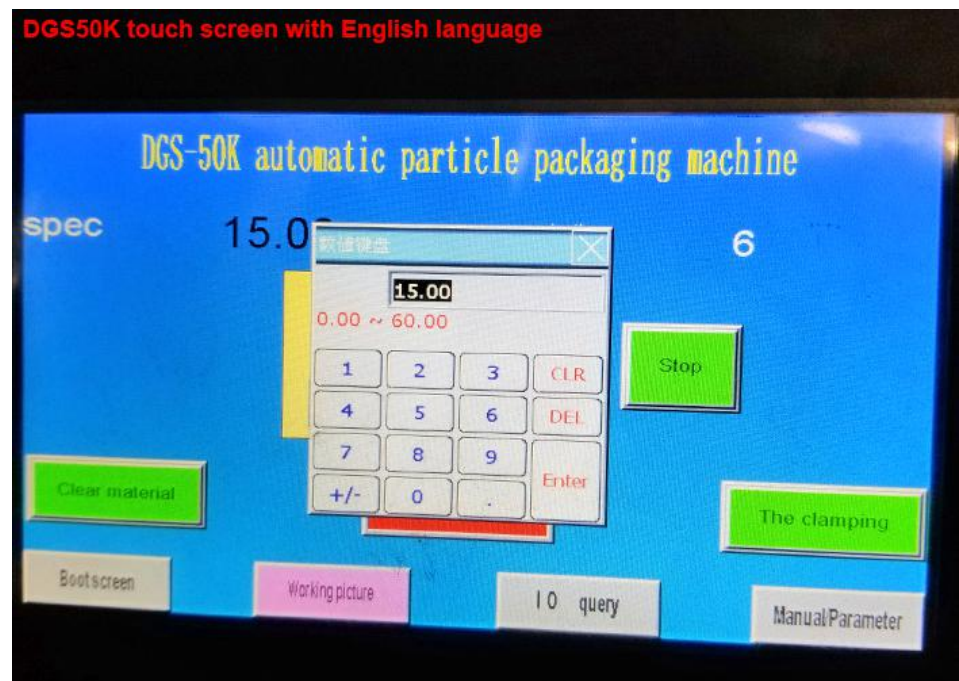
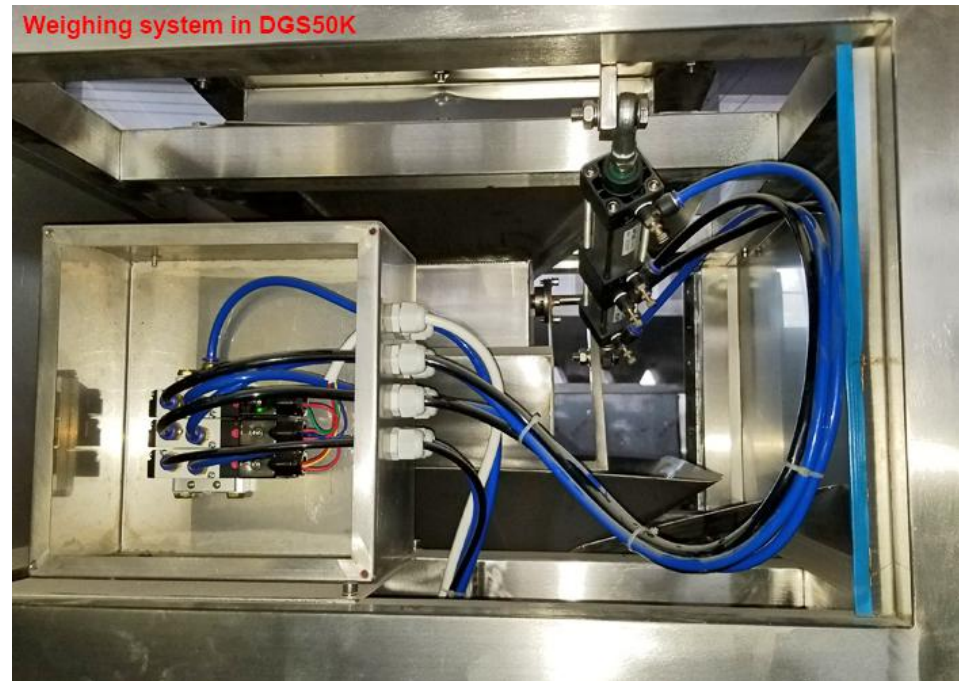
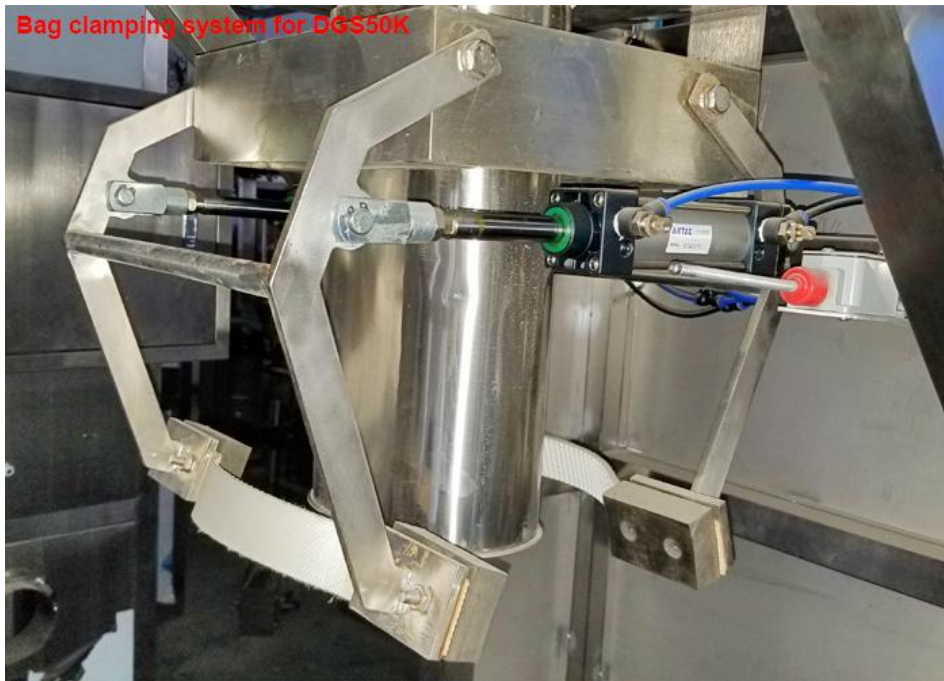


DGS50K ready for delivery



Standard plywood package for exporting





Bag sealed by heat sealer



Contact: Vincent +86 18639007627 (Mobile/WhatsApp/Wechat)

Bag sealed by sewing machine



Contact: Vincent +86 18639007627 (Mobile/WhatsApp/Wechat)