

Clamping Claw-type Folding Mechanism (Patented Design)

The clamping claw has connecting bar mechanism and movements of front and rear clamping claws and case conveying movement are fully synchronous, and folding movements are formed during operation. Folding and closure movement of front and back sides will be completed by clamping jaws when conveying cases so that problems, such as poor formation of folding sides, skew cases and stuck cases will be avoided. Replacement of case types can be completed according to position of clamping jaws before and after adjustment of case type, saving time and energy.



Cold and Hot Glue Spraying Mechanism

When products pass through glue spraying area, independent cold and hot glue spraying mechanism will automatically spray glue on case sides to be folded and then front and rear case sides will be wrapped by folding mechanism. During transportation, this mechanism will reform four sides of cases during transportation to seal cases.



No Contact With Oil Stain In The Whole Process

Carton pressing and infeeding conveyor belt adopts special chains with cover to ensure that there is no direct contact between cartons and conveyor belts so as to prevent chain oil stains from polluting cartons.



Bottle Type Conversion

For simplifying operation and reducing parts to be replaced, Vanta equipment adopts the best bottle type conversion scheme and can pre-store operation parameters of all formats. Besides, operators can select required formats through the touch screen, and adjustment points on wrap around packer are adjusted by stepper motor, thus reducing labor costs.



Equipment selection table

Equipment Model	Speed (pack/min)	Equipment Dimension (mm)	Minimum Dimension Of Case (mm)	Maximum Dimension Of Case (mm)	Bottle Dimension (mm)	Bottle Height (mm)
WSD-B251	25	5580*2240*2000	200*170*90	480*300*300	55~100	90~300
WSD-B351	35	11600*2000*2650	200*170*90	480*300*300	55~100	90~300
WSD-B451	45	11600*2000*2650	200*170*90	480*300*300	55~100	90~300
WSD-B651	65	12400*2000*2650	200*170*90	480*300*300	55~100	90~300
WSD-B851	80	12400*2000*2650	200*170*90	480*300*300	55~100	90~300

About Vanta

Vanta is a domestically leading intelligent packaging solution provider dedicating to the most cost-effective integrated solutions for high and medium speed production line. First of all, we always optimize the energy efficiency in every link from packaging production line engineering and equipment design to performance testing, so we can save resources drastically and minimize the impacts upon the environment. Besides, we keep studying and developing leading technologies and products in the industry, so we strictly follow the market no matter how it changes. No matter which business you are in, we can customize, for you, flexible and innovative production solutions that meet super high quality standards, and working with us allows your products to standard out of fierce market competition. For details about Vanta's packaging solution, please come to [www.vanta.cn](http://www.vanta.cn).



Provide The Most Effective Production Line Solutions



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Wrap Arounding Production Solution

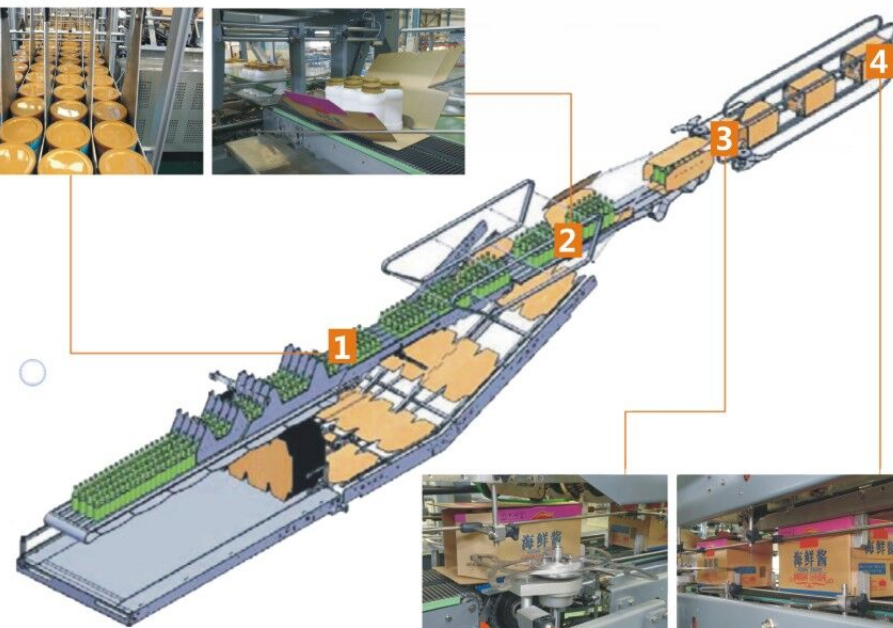
Grasp the latest packing trend



**Wrap around case packer is an automatic packing equipment, which is used to wrap around a set of containers with flat cardboard and spray adhesive to seal cases, and is especially applied to secondary packing of products, such as PET bottles, glass bottles, pop cans or many small packages of pure water, drinks, beer, condiment, edible oil and other industries.**



## Packaging process



1. In the machine infeed zone, loose bottles are lined up by a group of guide rails accurately and then are conveyed into the equipment through conveyor belts featuring low-friction chain made by thermoplastic materials; in packing formation zone, bottles are arranged in required format through electronically synchronized bottle dividing fingers and dividing bars, operating in continuous motion.

2. Cardboard dispenser will distribute single a sheet of cardboard stacked on the conveyor belt and then cardboard will climb along the slope and enter into the packing area, and then will be accurately placed below bottles conveyed. When bottles move along with cardboard, folding mechanism will fold around cardboard to wrap products.

3. Cardboard folding mechanism will fold the sides of cardboard firstly, and then fold front side and back side of top parts/bottom parts. Besides, the top part and front and back sides of case plates will be sprayed with a thin layer of hot melt glue by spray gun to achieve case sealing so as to ensure smooth case/pallet packing.

4. At the machine outlet, during case transportation, packing sides will be pressed by guide rail of folding mechanism and this strengthens case type, thus ensuring package type become more beautiful and firm.

## 1 Bottle Dividing Mechanism (National Patent)

Bottle dividing mechanism adopts plastic dividing fingers, which is more durable than metal materials and can reduce noise. Plastic dividing fingers are driven and controlled by servo to run according to prescribed track, and the dividing finger will divide each group of containers into prescribed bottle groups steadily according to packing requirements and protect containers (such as glass containers) and trademarks from abrasion. Only slight adjustment is required for replacing bottle type and bottle type can be changed within shortest time.



## 2 Automatic Cardboard Warehouse Mechanism

The automatic cardboard warehouse mechanism can store thousands of cardboard to avoid increasing cardboard frequently. Users can select Vanta' s automatic manipulator loading equipment that can transport cardboard from pallet to conveyor belts so as to supply cardboard for equipment continuously, thus achieving full intelligence and automation of whole equipment .



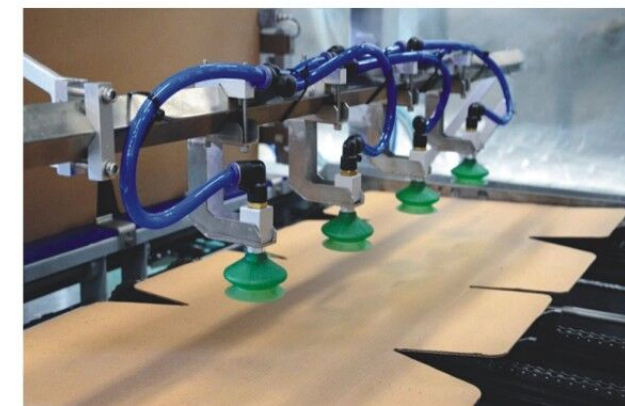
## 3 Cardboard Dispenser Cardboard pre-Dispenser

During actual package production process, one problem that frequently comes up is that cardboard will be stuck together due to compression, humidity and other reasons after long-term stacking. Cardboard dispenser will pre-divide cardboard pallet entering into equipment through conveyor belt, and then send a sheet of cardboard to equipment by the dispenser with high-friction factor pulley and belts. The cardboard dispenser continuously controls the location of cardboard and uses photoelectric switch to control synchronism. It can ensure long service life and reliability even under high output.



## Vertical Connecting Bar Paper Sucking Dispenser (Patented Design)

It uses connecting bar to drive swing arm to conduct reciprocating motion, and then the sucker will conduct rotary movement along with swing arm so as to absorb cardboard in cardboard warehouse and then shift out and place them on the conveyor belts, simple in structure, small in inertia and low in maintenance costs. It is mainly applied to packing containers with handle.



For loading parts, rubbing papers at the bottom and there is no direct contact between packing cardboard and chains so as to ensure that cardboard will not be polluted by oil stain. Cardboard is controlled by servo motor is climb slop, high in stability and more convenient in adjustment. Electronic device control containers and cardboard to conduct locating to transport cardboard and products to the packing area synchronously so as to ensure that sides of containers are coupled to cardboard synchronously, thus protecting all bottles from falling down or loosening.



## 4 Partition Plate Insert Device

Vanta wrap around packer can provide different partition plates insert scheme and all partition plates insert device are controlled by servo motor so that the device can insert partition plates accurately at appropriate time and position and the whole operation process is high in coordination and uniformity.



## 5 Case Folding and Sealing Mechanical flapping and folding mechanism (patented design)

During product transportation process, through flapping the top folder page of cases to fold cases, and this has low requirements in cardboard without large chamfer and clearance, reliable in bonding and better in effects.

