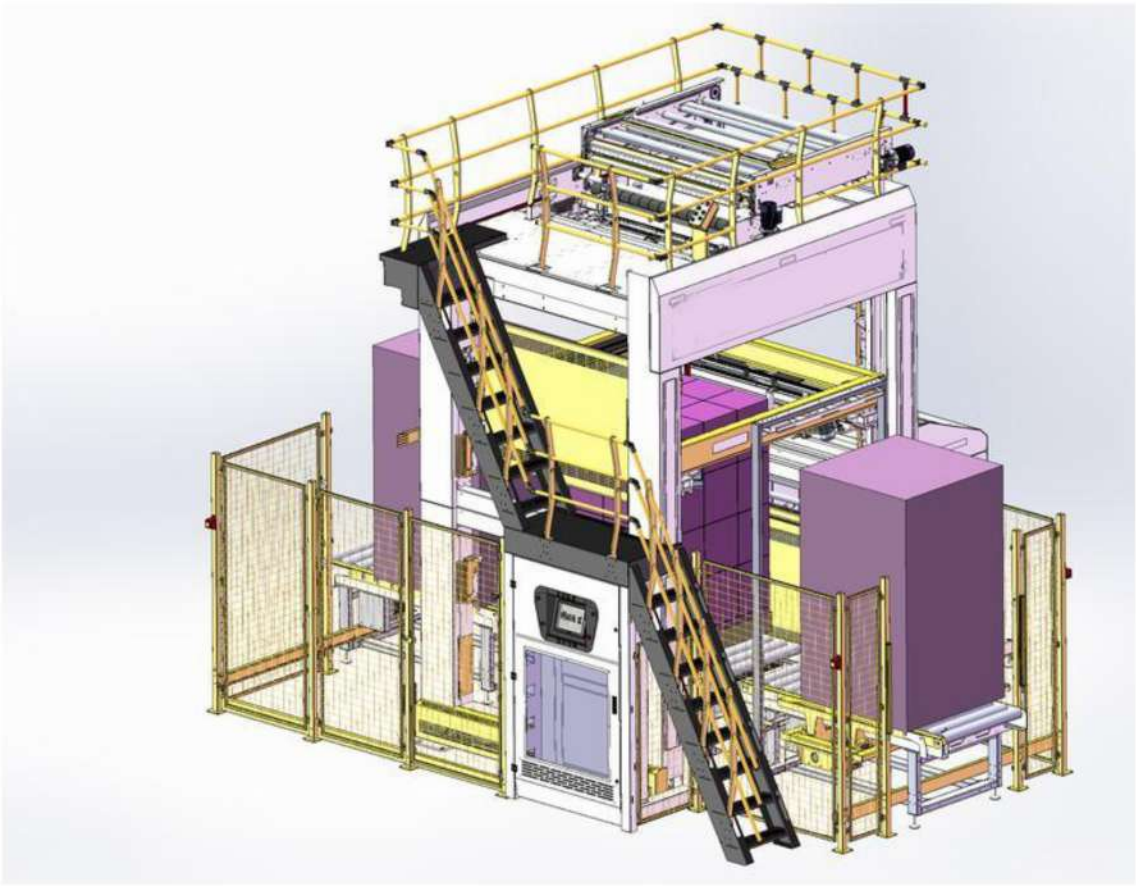
ÖZARMA
AMBALAJ



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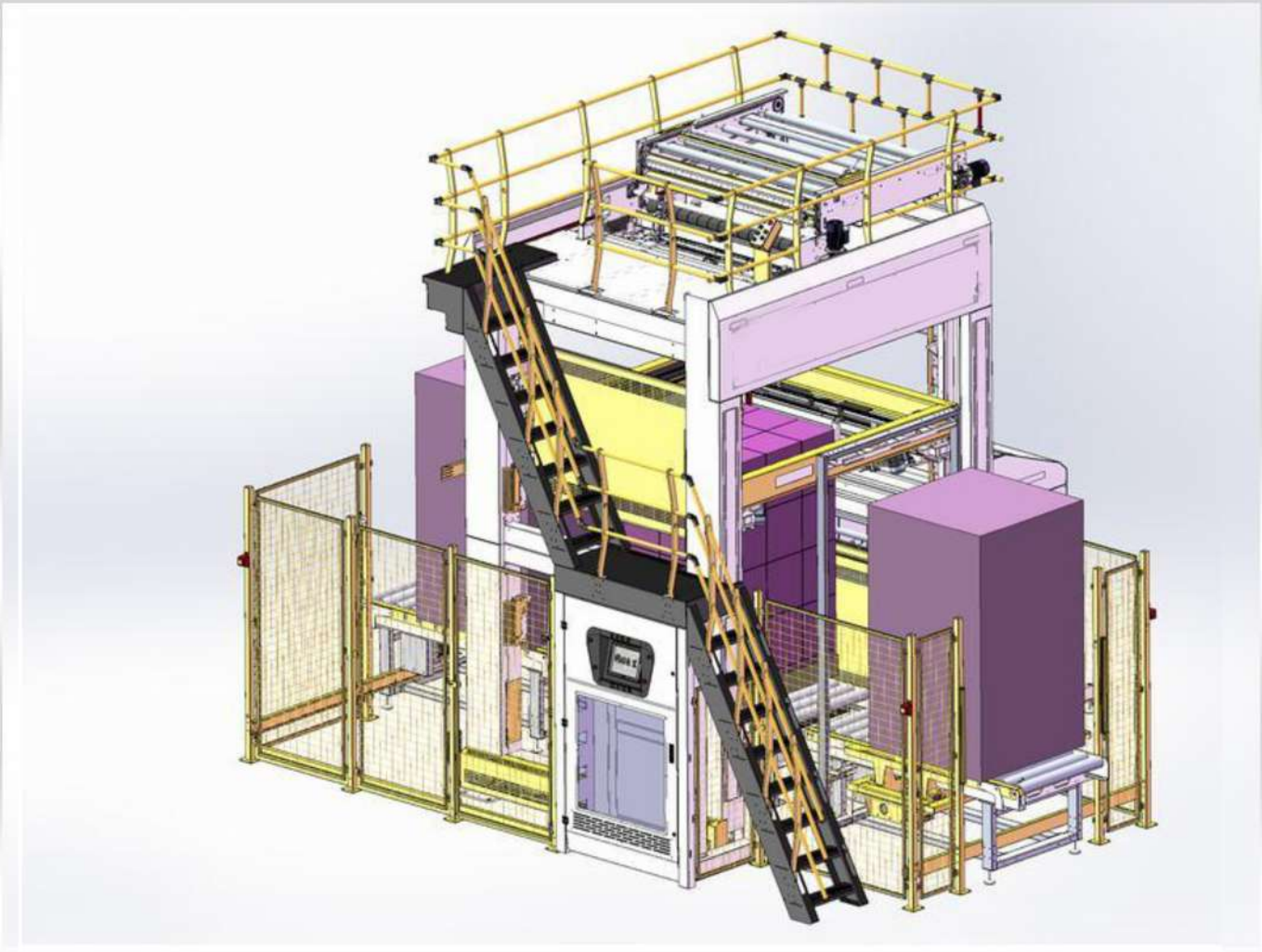
The first part------ Introduction

The second part-----Instructions of Equipment

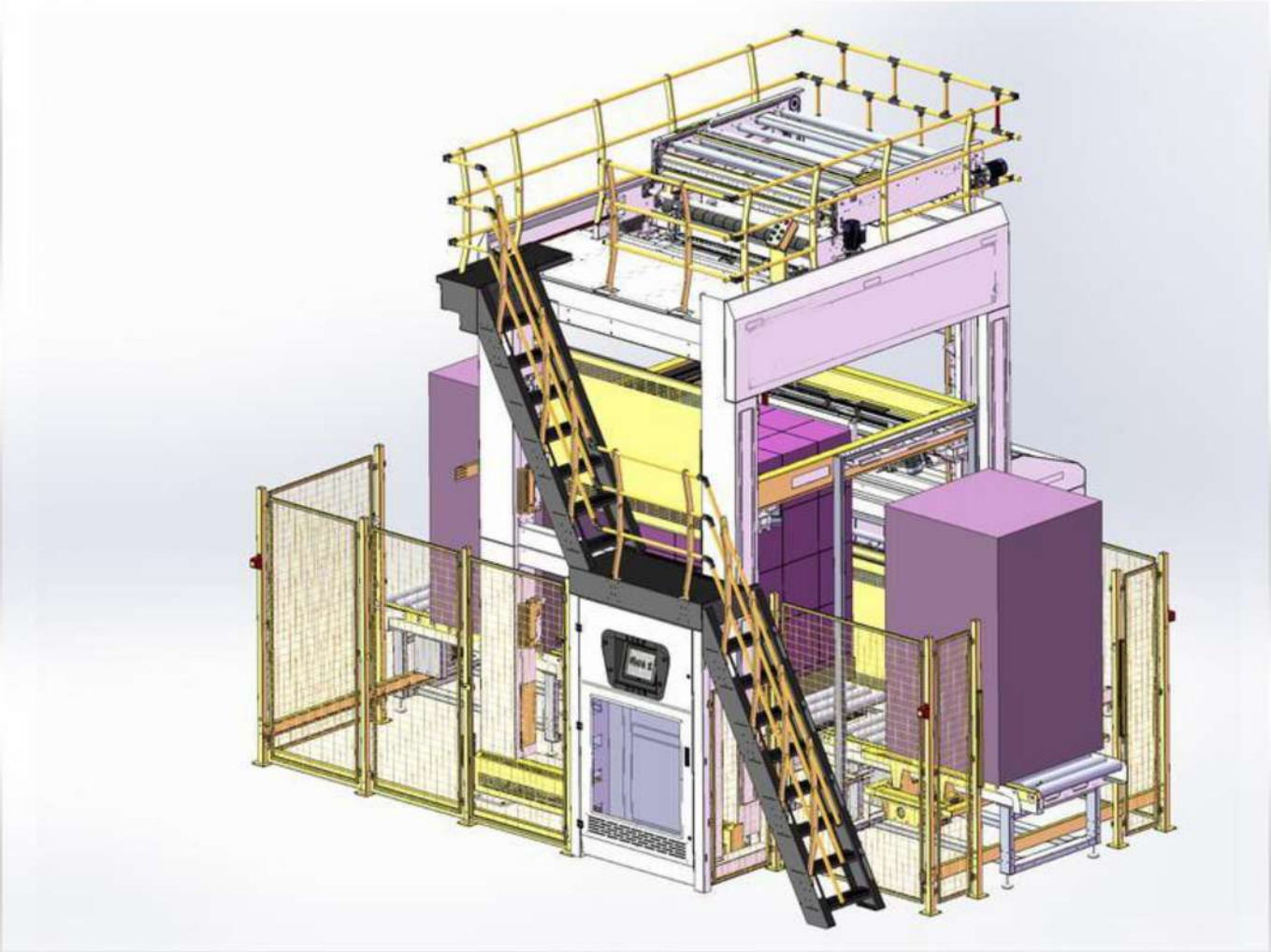
Fully Automatic Stretch Hooding Machine



HOODING SYSTEM FEATURES

- The max production capacity is about 100 pallets per hour(according to the pallet's height, the capacity may have slightly differences);
- The film which is sealed on the top becomes the bag and it is effectively waterproof;
- The products which are packaged together by the film in the pallets are very suitable for transportation. And it can effectively prevent product shedding;
- The products on the pallets which will take away only by cut the stretch hood film, so it can reduce the risk of theft;
- For 0.08-0.15mm thickness PE stretch hood film;

- Cold stretch hood film doesn't need heat energy. So it is very eco-friendly and keep your products away from fire and explosion;
- The machine contains the protection feature from the shrink wrap film and the economical shrink wrap machine;
- The machine can be designed according to your requirements;
- Double heats design makes the machine can choose the optimum film according to the sizes of the pallets automatically;
- It is a circulation operation process of stretching and hooding in the cold stretch hood machine;
- The modular design is very stable and solid and suitable for continuous working;
- The stretch hood film can protect the products away from water and dust;
- The transparency of the stretch hood film is higher than traditional PE film; you can see the bar code and trademark very clearly. So the advertisements and the exhibition value can be completely showed;
- The upright packing power is strong; when the product leans, it also can keep standing;
- The package material is environmental and recyclable.



- **Easy servicing:** with the power you will have easy access to all over servicing, Which is reduced to a few quick tasks, special for the unique feature of lowering the top of the machine down to floor level for even easier, faster and safer service and maintenance. Film replacement and changing of sealing wire and film knife all take place at floor lever. No need to climb a ladder with a toolbox on your back to the top of the machine- the top will come down to you.

- **Energy saving:** Sustainability and environment are at the forefront of the global debate today and we as packaging professionals have faced the challenge of taking practical steps to deliver more environmentally friendly packaging solutions.
- **Space saving:** Space is often at a premium in today's production, and the small footprint in the packing area. The machine is small that is as elegant as it is functional. We are talking about a machine. Small in sizes but huge in effect, specially designed for operating efficiency and reliability with energy-saving features
- **Film saving:** The top stretch film unwinding feature saves up to 10% film and ensures low film consumption, which also eliminates thin and fragile film on the corners of the load, making the film on the corners approx.30% thicker than normally.
- Stretch hood technology offers significant benefits when compared to other types of pallet wrapping methods- from potential cost savings through reduced film and energy consumptions over material handling convenience to product display opportunities and improved marketability
- Stretch hood provides a 5-sided waterproof barrier with reduced risk of product damage due to soiling and weather inferences as well as strains to which the products are exposed during transport and storage.

TECHNICAL PARAMETER

Model	ARM-2700
Power	20KW
Power Supply	AC 380V 3PH 50HZ
Air Source	6-8 KG/CM2
Max. Package Size L×W×H	1200×1200×1800mm (H2300mm optional)
Packing Speed	60-100 pallets/hour
Load Weight	3000kgs
Working Table Height	750±50mm
Applicable Film	PE stretch hood film
Machine Size L×W×H	5318×2500×5290mm
Crate Size	55.9CBM
G./N. Weight	9000/8700kgs

CONFIGURATION

Parts Name	Brand	Country
Cutter Cylinder	Airtac	Taiwan
Film Clamping Cylinder	Airtac	Taiwan
Positioning Cylinder	Airtac	Taiwan
Solenoid Valve	Airtac	Taiwan
Film Stretching Motor	SEW	Germany
Film Winding Motor	SEW	Germany
Film Stretching Servo Motor	Schnerider	France
Lifting Motor	Haitec	Italy
PLC	Siemens	Germany
HMI	Siemens	Germany
Limiting Sensor	Banner	USA
Lifting Detection Sensor	Autonics	Korea
Alarm Lamp	Siemens	Germany
AC Contractor	Schneider	France
DC Power Supply	Schneider	France
Short-circuit Switch	Schneider	France
Frequency Inverter	Schneider	France
Intermediate Relay	Siemens	Germany
Transformer	Guming	China
Main Body Frame	Baowu Steel Group	China

Operating environment

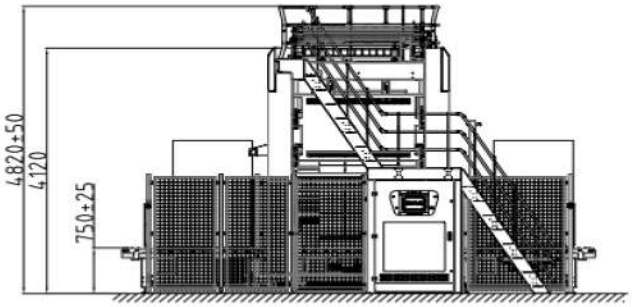
No.	Name	Machine requirement	Plant requirement
1	Temperature	5~40℃	/
2	Humidity	No requirement	/
3	Dryness	No requirement	/
4	Cleanliness	1000K	/
5	Floor bearing	Equipment ≤ 1t / m2	Plant floor ＞ 1t / m2
6	Hoisting size	W=4000mm,H=3000mm The location of hoisting rings is reasonable to ensure that the gravity of the equipment is at the center.	/

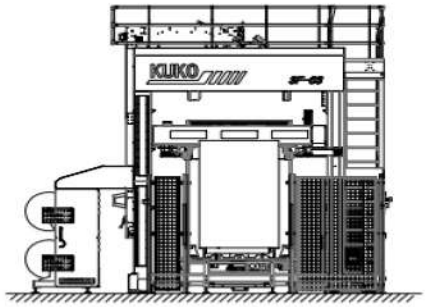
Design capability

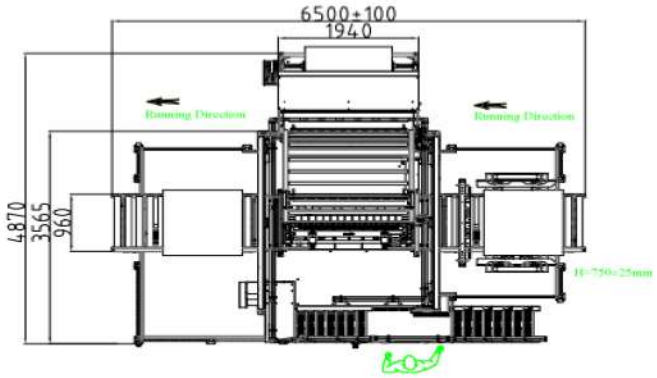
No.	Name	Requirement	Calculation
1	First time yield	First time yield > 99.9%	First time yield, it means first-time excellent rate, surface products can pass through a certain defect free. This process does not include the factors of the product itself, and the data collection needs to be connected. The average value of data for one month of continuous production: FTY = number of qualified products passed at one time / total quantity produced TTY = (the number of qualified products passed at one time + the number of repaired OK products) / consideration)/ Total quantity produced
2	failure rate	≤0.2%	It refers to the percentage of downtime and start-up time of equipment, which is used to assess equipment technology, An indicator of operation status, failure intensity, maintenance quality and efficiency; failure shutdown Time refers to the time from equipment failure to the first qualified product

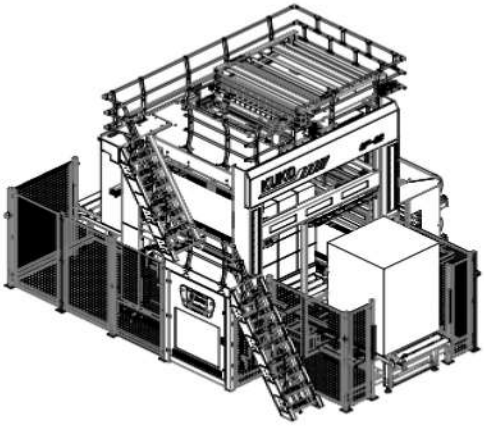
			output; Load time refers to the time when the equipment should be started according to the plan, which is generally calculated every 24h; Data collection needs the average value of one month's continuous production data; failure rate= ∑ downtime of single equipment/ ∑ load time of single equipment *100% 1. The statistical calculation stage of failure rate is that the equipment is stable after climbing to full capacity Under the status of continuous collection of production failure data statistics for one month; 2. The statistics of failure rate only includes the downtime caused by equipment failure; 3. The statistics of failure rate does not include the downtime caused by materials, which is irregular Stop time caused by operation and other non equipment factors.
3	PPM or Speed	≥80 pallets/hours	Part per minute, That is the number of products produced per minute, it is a parameter to measure the production speed of the equipment and the average speed of continuous production; PPM= ∑ The quantity produced in a continuous period / ∑ continuous duration (minutes)
4	CMK	N/A	Critical machine capability index, only the influence of the equipment itself should be considered, At the same time, the deviation between the mean value of the distribution and the center value of the gauge is considered, CMK assessment is only allowed on the machine that has been warmed up; data collection is required, Data acquisition needs to be in the shortest possible time, same operator, standard operation methods were used for collection. The number of data is generally 10 groups, a total of 50 samples. $\mathrm{Cmk}=\frac{(1-K)T}{6s}$ $(K=2B_i/T,$ $B_i=\lvert\overline{X}-x_i\rvert$, $S=\sqrt{\frac{\sum(X-\overline{X})^2}{n-1}})$

LAYOUT





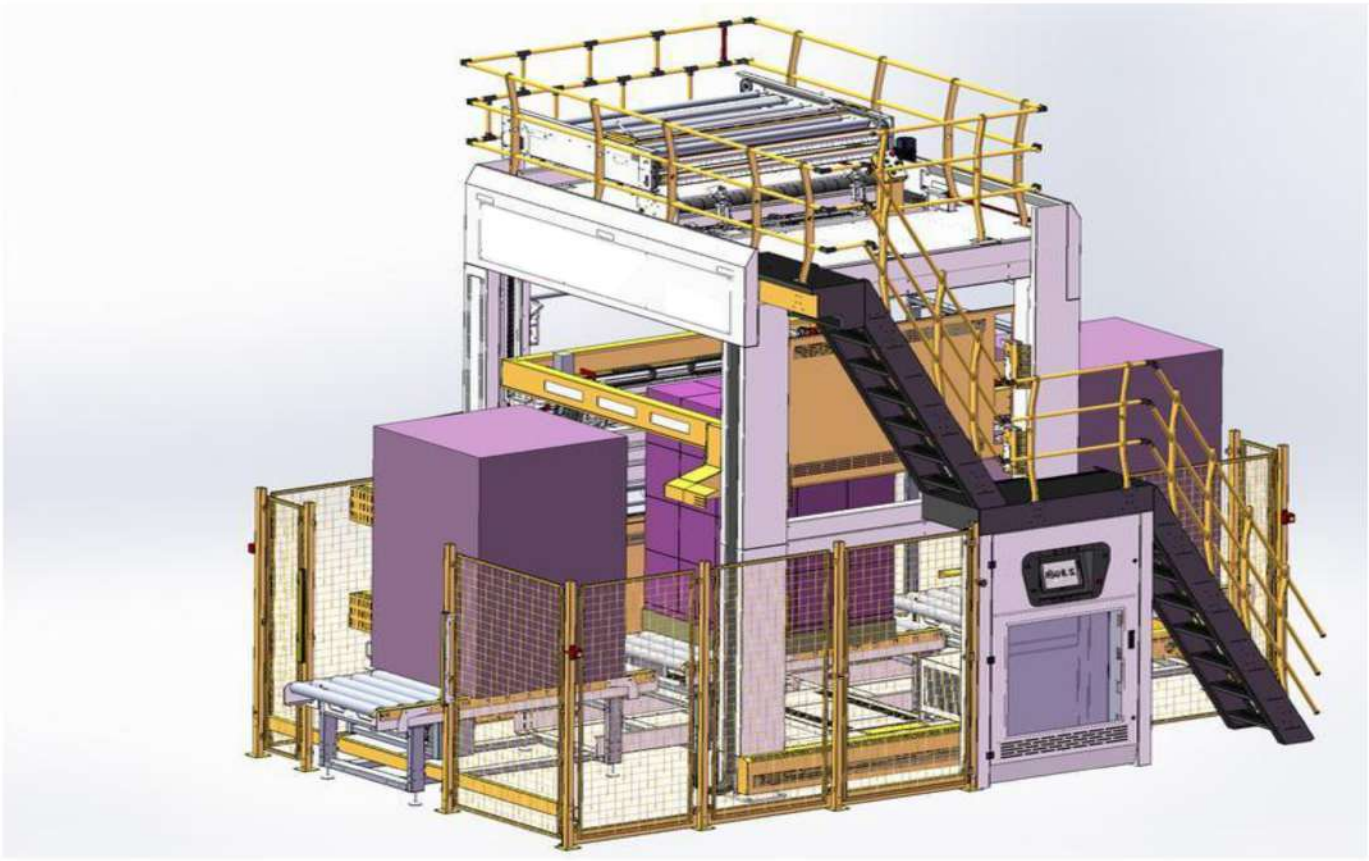




Siemens HMI & PLC

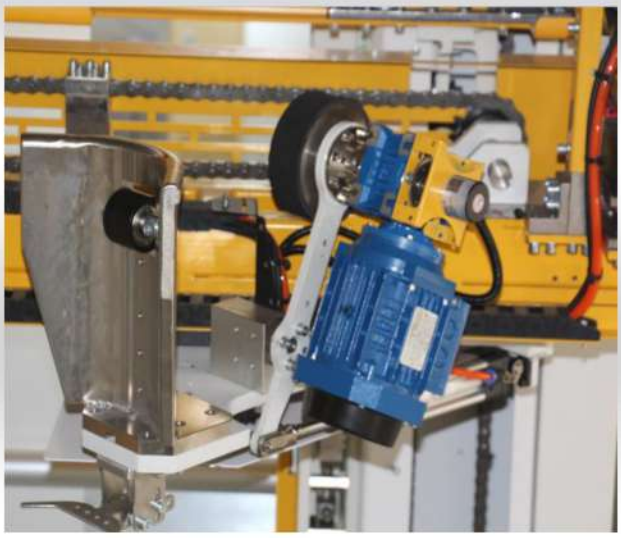
Stretch Hooder

ALL SIDE PHOTOS



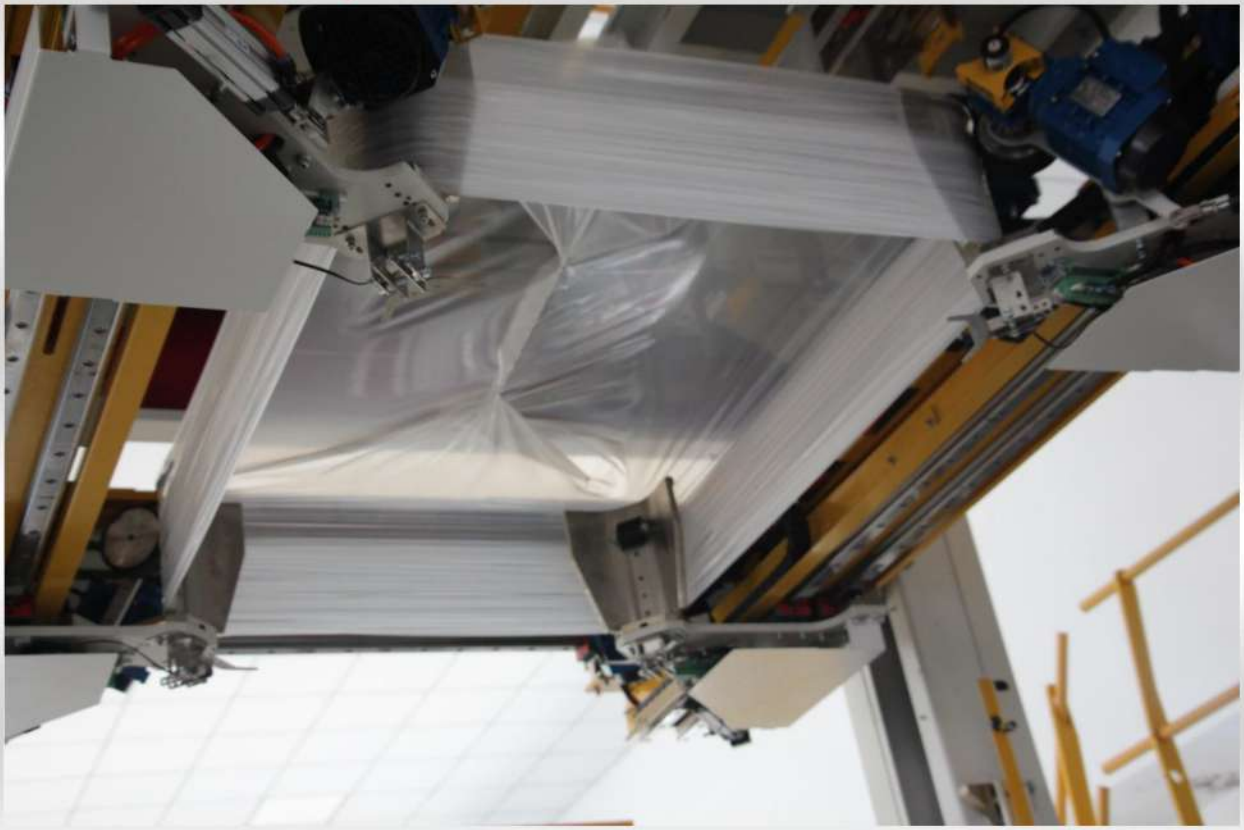
HOOD SYSTEM INSITE PICTURES

Film Gripping & Winding System



Film Clamping & Lifting Mechanism:

Four Sides Film Stretch System:



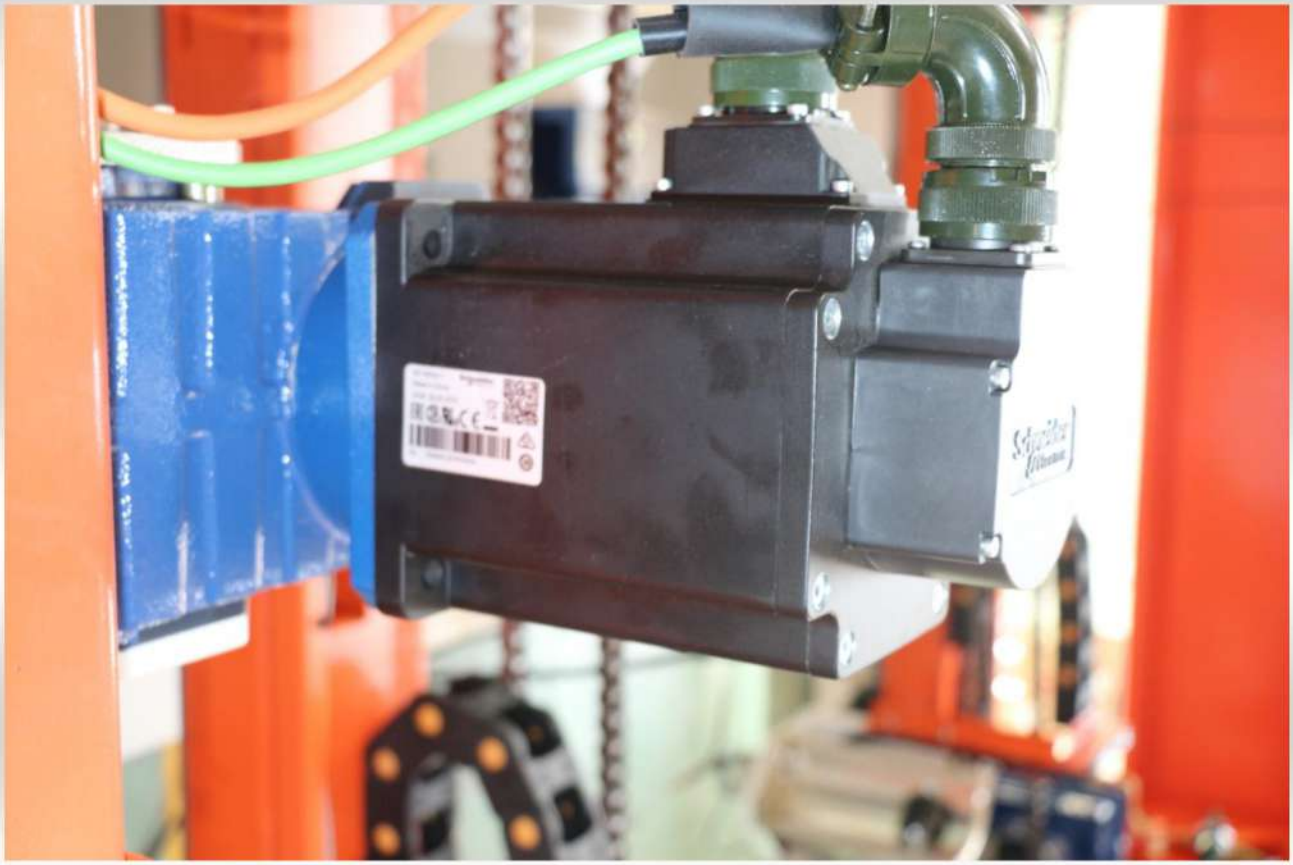
Middle Power Roller Conveyor:

Electrical Cabinet Outside:

Inside Wire Connection:

Germany SIEMENS PLC & HMI:

France Schneider Motor:



Italy Haitec Motor:

Packing Process:

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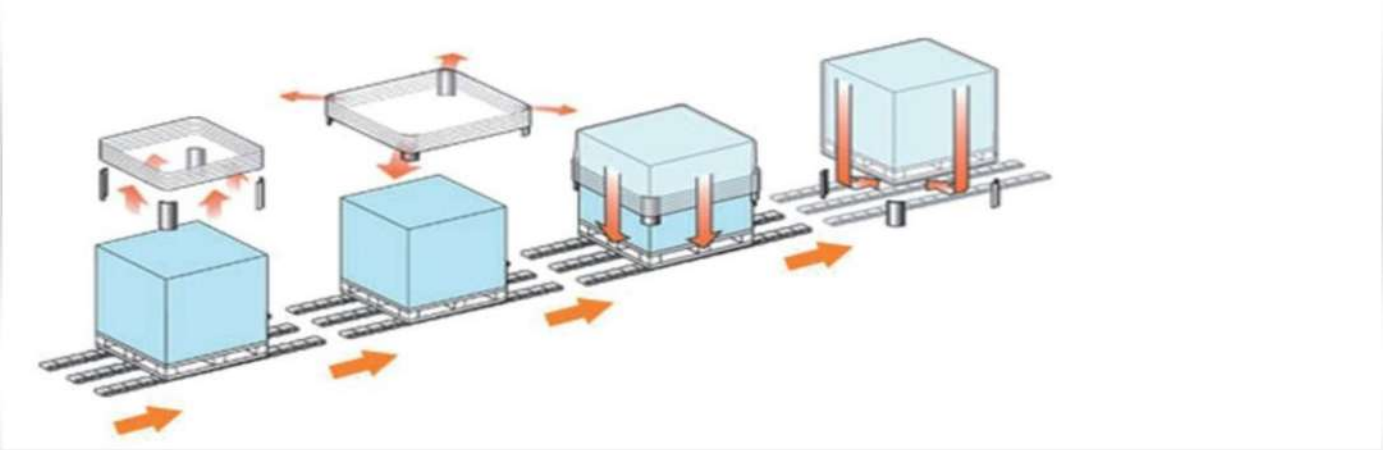

Applications:


Bricks


Building Materials


Insulation


Food Products


Chemicals


Corrugated


Empty Containers


Beverages


Horticulture


Minerals

Warranty: 1 year. Within one year, we will replace the spare parts which are non-man made damage except the wearing parts. But the customer should bear the express charge. After the guarantee, we will offer the spare parts at EXW price and we will supply lifelong consulting services.

Packing Material

500KG/ROLL

Packing Appearance


DEITERMANN
Cerinol Fix LK


Antystar BN

Shipping

It needs 2 40 HQ.