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STRETCH-ALL
Stretch Hooder



STRETCH-ALL

When considering packaging line automation, pallet load securing is one part of the process that is sometimes underestimated. Premier Tech Chronos now offers the STRETCH-ALL, a worldwide platform of stretch hood technology that provides the weather protection and load stability benefits of shrink wrapping with the savings of stretch wrapping. Special care is needed once the pallet is stacked. Moisture and UV rays are the main causes of loss of value, or even of the complete loss of your products. The only appropriate protection against rain and water spray is a system that is absolutely waterproof.

The STRETCH-ALL system ensures optimum product safety by protecting it against humidity, UV rays and other weather conditions as well as against the danger of cargo shift during transport, without the need to incur costly energy expenditures normally associated with shrink wrapping.

Applications

Pallet loads of bags, bales, boxes, bundles, cases, etc.

Advantages compared to stretch wrap

- Waterproof packaging
- Barcodes remain properly visible
- No loose foil underneath the pallet
- Constant minimal foil consumption
- Option of running the foil underneath the pallet for added stability
- Option of stretching vertically for lower foil consumption and added stability

The capacity of the STRETCH-ALL Series goes from 40 to 100 loads per hour. An important contribution to this speed is the relatively low material consumption of the machine. Accurate ultrasonic height measurements ensure that the machine produces covers of the correct foil length. This prevents unnecessary wastage of material, and reduces the time required for refilling with foil material.

Inspired by the old European Rainbow stretch hood platform but totally redesigned today's requirements, the STRETCH-ALL offers significant advantages with regard to performance, maintenance and cost. Where the STRETCH-ALL differentiates itself from other stretch hoods is its new mobile film-loading system. This innovative design feature allows the film carriage to be lowered outside the frame to a safe working height, where new film reels can be changed in a safe and efficient manner.



- Only one type of material, no top-sheet foil required
- Machine requires hardly any maintenance
- 800 to 1,000 wrapped pallets per roll of foil
- Option of perforated foil to prevent condensation
- Option of creating an 'open top' or a band of foil around part of the pallet



Advantages compared to shrink wrap

- Cost-saving due to reduced foil consumption
- Cost-saving due to lower energy consumption
- No heat needed
- High capacities
- Permanent stretch, both horizontally and vertically
- No heat supply, therefore no fusion of the foil with the load

Functionality

The STRETCH-ALL creates a cover from tubular foil and stretches it over the pallet. When the pallet enters the machine the length of the required cover is determined by ultrasonic height measurement. The machine stretches the foil over four tensioning rollers. The cover is created by sealing and cutting the rolled-up foil. Synchronous, frequency-controlled mechanical arms stretch the rolled-up cover and guide it downwards over the pallet.

Sensors guide the mechanical arms along the edges of the pallet load. If any section of the load protrudes, the machine automatically stretches the foil further. The cover is fitted to the pallet load by the controlled unrolling of the foil until the bottom of the pallet is reached; a string of foil can be applied to the pallet for added stability.

The mechanical arms move upwards again. The machine releases the hooded pallet and is then ready for the next.

Better performance

The load on the pallet remains perfectly visible underneath the stretchhood. This is a considerable advantage in the case of brand products, where visibility is money. For even more prominent product marketing, foil can be supplied with continuous printing on it.

Stability

Stretchhood covers are made of polyethylene (PE) that is tensioned during the stretchhooding process. The elasticity ensures that the stretchhood returns to its original size very quickly after the stacked pallet has been covered. The pallet load is secured by the high tension of the foil without any risk of the goods being damaged; the possibility of load sliding is therefore eliminated.

Secure in all aspects

The PE foil is resistant to tears and punctures, and is therefore strong enough to withstand the inevitable contact with humans and machinery during transportation. Using stretch foil also appears to reduce instances of theft.

Environmentally friendly

Compared to other pallet packaging methods, the material and energy consumption required for stretchhooding is very low. The process is mechanical, without any energy-consuming shrinking techniques. Stretchhoods can easily be removed after use, and the material is fully recyclable.





Production rate

Up to **100 loads per hour***

*Depending on loading height, foil thickness, etc.

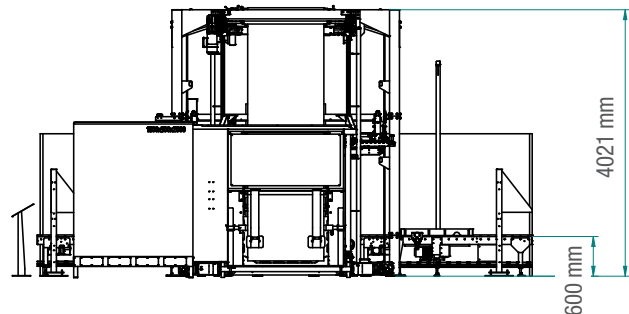
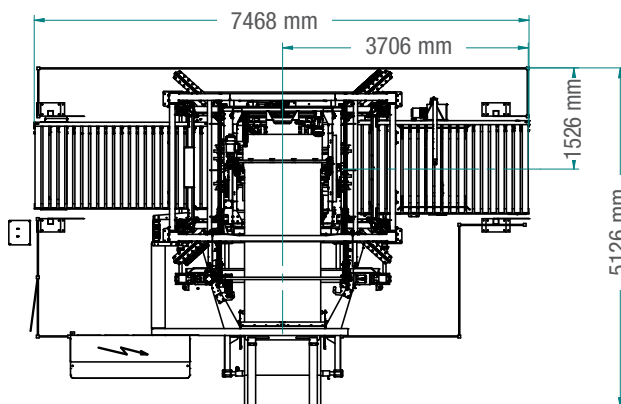
Technical data

	Min	Max
Stretch dimension - rectangle pallets (LxW)	48" x 31.5"	55" x 48"
Stretch dimension - square pallets (LxW)	40" x 40"	48" x 48"
Loading height*	2' - 0" (610mm)	9' - 0" (2743mm)
Loading weight:	Up to 4400 pounds	
Load conveying height:	21.5" (550 mm) above floor	
Film thickness:	2.4 @ 5 mils (60 -130 Microns)	
Film roll diameter:	Max: 40" (1000 mm)	
Recipes filling line:	100 recipes free programmable	
Operating pressure:	85 – 100 PSI (6 – 7 bar)	
Electrical requirements:	480 volts 60 Hz	
Ambient temperature:	+40°F to +104°F (+5°C to +40°C)	

*Load height includes pallet, slip sheet, etc.

*Options to process higher loads are available

Typical layout





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