

A photograph showing a stretch hooder machine in operation. The machine is yellow and is wrapping a stack of white boxes. The boxes have the word "Gelatin" and "Rousselot" printed on them. The machine's rollers and guides are visible, and the stretch film is being applied to the boxes.

RAINBOW SERIES

Stretch hooder

Stretch Hooder



Every product deserves the utmost care. CHRONO-STRETCH™ **RAINBOW SERIES** Stretch Hooder protects goods on pallets against most external influences. Special care is needed once the pallet is stacked. Moisture is the number one cause 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. Stretchhoods offer a guaranteed protection, simply because water and dust have no chance whatsoever to reach the products on the pallet.

Also, the influence of UV radiation can cause unintentional damage. Stretchhood foil can be produced with an UV stabiliser, which provides the covers with a hardwearing protection against sunlight.

Applications

Bags, Boxes, Cans, Bricks, Insulation materials, PET bottles, Tins



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
- 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 cover' or a band of foil around part of the pallet

The capacity of the RAINBOW SERIES may rise well above 120 loads per hour. An important contribution to this speed is the relatively minor 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.

Stretchhood packaging is synonymous with constant packaging costs per pallet of finished product. The RAINBOW SERIES requires very little maintenance and is easy to operate. All functions are either motorised or pneumatically driven. No hydraulics has been incorporated into the machine.



Stretch Hooder



Advantages compared to shrink wrap

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

Functionality

The stretchhood machine 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 fixed 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. Use of the 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.



Stretch Hooder



Production rate

Up to 120 loads per hour*

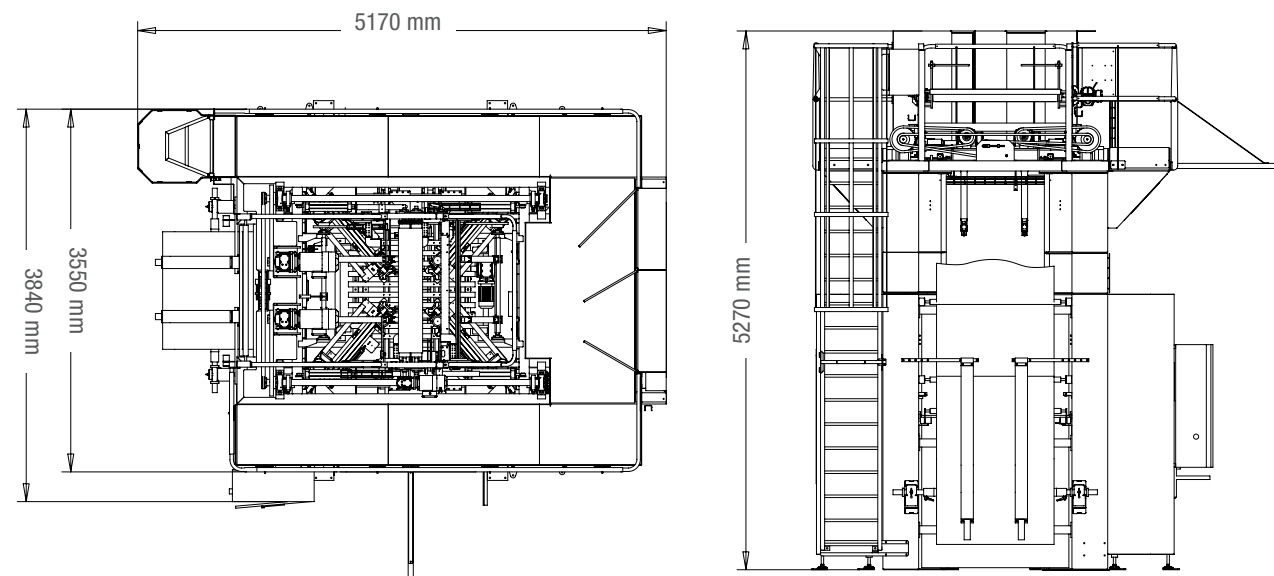
*Depending on loading height, foil thickness, etc.

Technical data

Full-pallet load dimensions:	Width: 800 to 1300 mm Length: 800 to 1300 mm Height*: 500 to 3500 mm Weight: 2500 kg
Layer dimensions:	Up to 1650 x 1300 mm
Foil:	Material: Polyethylene (PE) stretch foil Type: Lay flat tube with side fold Width: 820 x 1150 mm Thickness: 60 to 120 µm Diameter: Up to 1000 mm
Operating pressure:	6 bar
Electrical requirements:	3 AC / 400 V / 50 Hz
Ambient temperature:	+5°C to +40°C

*Load height includes pallet, slipsheet, etc.

Typical layout



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