



BEUMER
technology in motion

Conveying technology Loading technology Palletising technology Packaging technology Sortation and distribution technology

BEUMER stretch hood®

The powerful solution for your packaging needs.





BEUMER stretch hood®
The powerful solution
from the innovators.

Advantages of the stretch hood method.

- High load stability through the application of directed vertical force components
- High-flexibility film enables the handling of various product sizes
- No adhesion between film and product
- Outstanding display characteristics
- High throughput performance
- Protection against environmental influences and theft
- High-rack compatible packaging
- Printed film possible
- Trouble-free film disposal

Disadvantages of conventional methods

Shrink hood method

- High energy and film consumption
- Increased potential fire risks, etc.
- Limited throughput performance
- Difficult handling of pressure-sensitive goods

Stretch-wrapping method

- Low operational availability due to regular necessity of changing film rolls, etc.
- Proven lower stability, no vertical force components applied
- Film overlaps prevent barcode reading





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BEUMER. Always one step ahead.

With the development of the patented stretch hood method, BEUMER stretch hood®, BEUMER provides customers with a future-orientated, user-friendly and effective packaging solution. With over 20 years of experience and a multitude of successfully implemented projects around the world, the company successfully and repeatedly confirms its leadership and competence in the field of packaging. BEUMER's ongoing technical innovations continue to provide new impulses, time and time again.

Your demands are our motivation.

Many concerns in the chemical industry, foodstuffs segment, building industry and other industries have stringent demands when it comes to the use of protective films for palletised goods. Often, alternative solutions are sought to replace conventional thermo-shrink films and stretch-wrapping methods. The BEUMER stretch hood® method combines the advantages of such systems and simultaneously avoids their disadvantages, to convincingly fulfil their customers' expectations with regard to packaging quality, cost-effective operations and operational reliability. Thanks to the extreme tear and penetration resistance of the films used, it is possible to appropriately package all types of packaged goods with dimensions from 500 x 500 mm to 2,500 x 1,250 mm (length x width).





BEUMER stretch hood®
**The powerful solution
for improved economy.**

Tried-and-tested process phases provide absolute functional reliability and high packaging rigidity.

Characteristics

- Reduction in operating costs
- Maximisation of operational reliability through permanently gripped film handling even under difficult ambient conditions
- Pretension of the film hood before insertion in the crimping and stretching device
- Smooth mechanical crimping of the film hood
- Particularly tear-resistant seam welding of gusseted film top
- Adjustable crimping modules permit stability-enhancing biaxial stretch
- Secure understretch system





Sophisticated technology for perfectly fitting film.

BEUMER stretch hood® is the innovative development in packaging technology for the optimum securing of palletised load units. This highly efficient packaging system combines the latest control systems, mature functional modules and unique film handling characteristics and is an efficient and practice-orientated solution to meet the broad spectrum of demands in shipment packaging.

We have a grip on film and our eyes on the costs.

Particularly in times of ever-increasing competition, optimum packaging and simultaneous savings are a significant factor in ensuring competitive capability.

With the BEUMER stretch hood® method, you can reduce your packaging costs by up to 40% in the case of shrink hood packaging, and up to 10% against stretch-wrapping methods. Transport damage can be reduced by up to 90%*.

Heat-resistant packaging considerably reduces power consumption, and we have replaced this costly power with the power of intelligent technology. In comparison with conventional packaging methods, the throughput capacity has now risen to up to 150 pallets per hour.

The minimisation of film consumption, due to better compaction options and full recycling capability, round off the impressive specifications of this innovative packaging system.

Performance characteristics	Shrink hood	Stretch wrap	Stretch hood
Packaging costs per load	○	●	●
Operating costs	○	●	●
Packaging speed	●	●	●
Load protection	●	○	●
Load flexibility	●	●	●
Operational reliability	○	●	●
Recycling capability	●	●	●

○ = Acceptable ● = Good ● = Optimum

*clearfilm packaging®

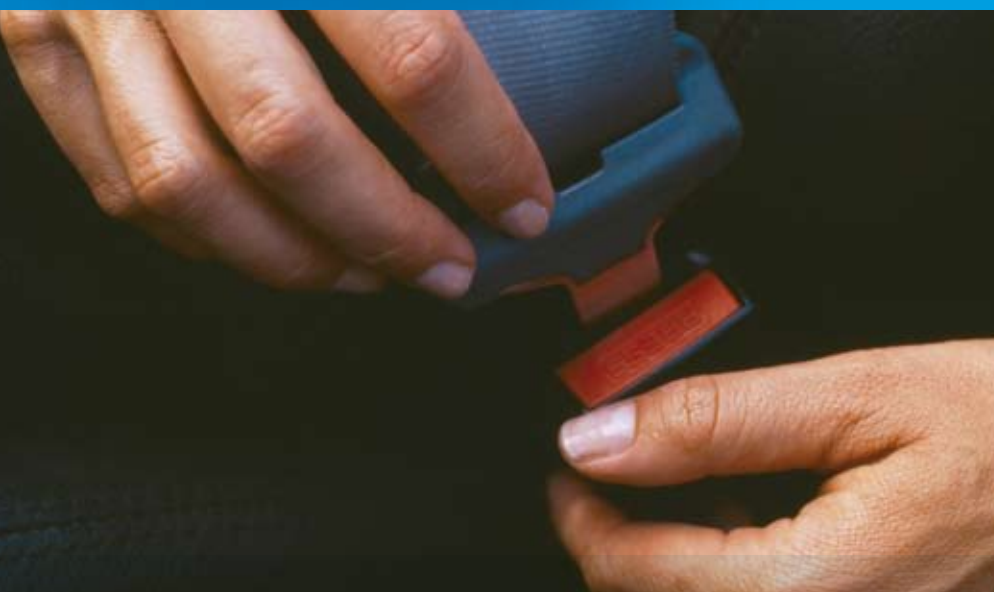
1. Pretension of the film hood and transfer to the crimping and stretching device
2. Smooth crimping of the hood; seaming and cutting to required length after sensing of stack height
3. Hood stretching; the degree of stretching required is determined by the stack dimensions, film elasticity and film dimensions
4. Pulling down the stretch corners and simultaneous stretching of the film in a vertical direction: "biaxial stretch"
5. Formation of the "understretch"





BEUMER stretch hood®

**The powerful solution
for extreme protection.**





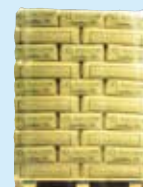
**We give your pallets a sure footing.
Whatever the wind and weather.**

The packaging films employed in the BEUMER stretch hood® method have many excellent properties. The film manufacturer can match elasticity factors and biaxial tensioning forces precisely to specific product requirements and conditions encountered during use. This is an area in which the close collaboration between BEUMER and the film manufacturers has a particularly positive influence on developments. The interface between the waterproof film and the pallet, the so-called “under-stretch”, guarantees the stability of the load, safe and secure transportation from its source to the end consumer and permits outdoor storage without any weathering problems.

**We stay cool.
Taking the heat out of packaging.**

As a result of the innovative technology of the BEUMER stretch hood® method, the removal of the heat aspect in product packaging reduces the risk of fire to zero. This represents an important technological aspect, particularly in the packaging materials industry.

In the case of formerly used stretch hood methods, the hoods were heated before application. In such a process, the risk of fire could never be completely disregarded. In particular, the unavoidable dust that arises when cutting cardboard and the inflammable product itself present an increased risk of fire, a fact that is reflected in accordingly high insurance premiums.





BEUMER stretch hood®
**The powerful solution –
modular concept for any task.**

- Increased performance by consistent implementation of overlapping process steps
- Fully automated pallet and package recognition
- Automatic evaluation of required film lengths with ultrasonic sensors
- BEUMER multi-stretch allows high-rack-compatible packaging
- Plug-in-and-go cables reduce assembly times
- Robust mechanical drive components ensure extended operational life cycles





**All in one. Perfectly combined.
Test it and see!**

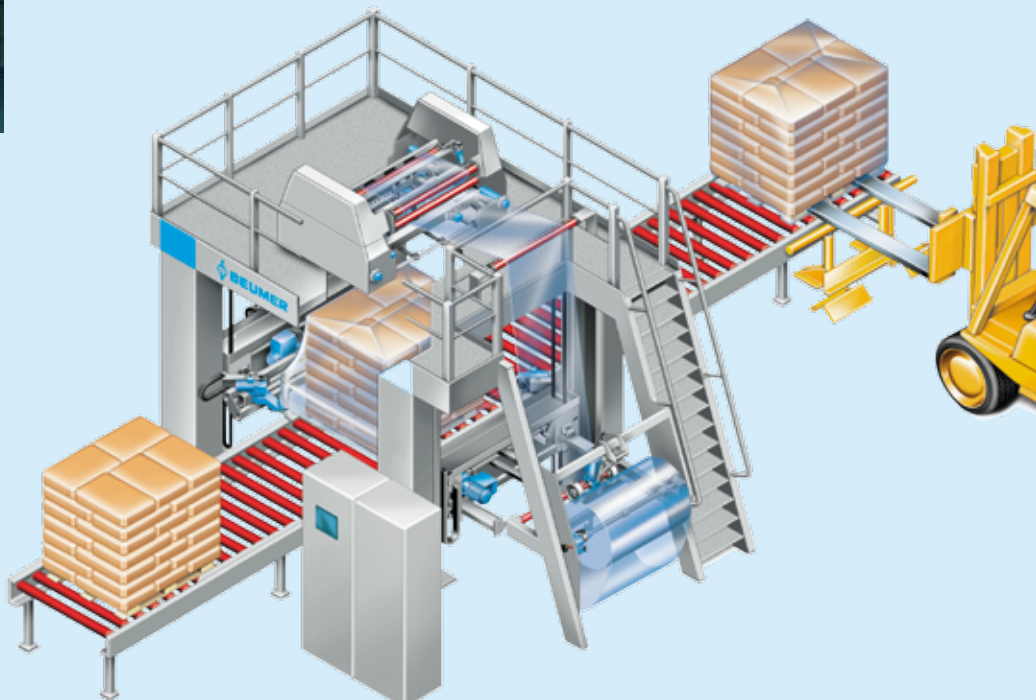
Stretch film packaging makes numerous applications possible. Alongside the single-format system, the concept of the multi-format system is variable and adapts automatically to the project situation at hand, and the current requirements. The size of incoming pallets is registered precisely by appropriate sensors and the corresponding film dimensions are selected for the packaging task.

In this way, all products are packaged with the optimum-sized stretch hoods. In our dedicated testing facility, we have an opportunity for the evaluation of equipment for customer-specific products. This puts us in a position to package your products effectively, securely and in a visually attractive form with the BEUMER stretch hood® method.

First impressions count.

The first visual impression is often essential to an end consumer's purchasing behaviour. Particularly manufacturers of consumer goods are interested in having their quality goods arrive at the point of sale in the best possible condition. A significant factor in this context is the careful handling of their products along the logistics chain. Thanks to the excellent visibility of products packed in our

clear stretch-film packages, the risk of returns from retailer's premises or the freight destination is considerably reduced.





Powerful solutions from the intralogistics experts. BEUMER worldwide.

We are always there when you need us!

Worldwide service.

Our service manager's regular inspections ensure:

- Sustained operational capability of your equipment
- Reduction of downtimes
- Exchange of experience
- Qualification of the maintenance team
- Continuous product optimisation
- Optimum spares stocking

Fault correction/BEUMER Hotline.

- Qualified worldwide support at short notice
- Online fault correction
- Worldwide availability of service engineers
- Short-notice deployment option
- Rapid action on the ground service

Technical consulting.

We can advise and train your staff, either in our own training centre or in your company. This ensures:

- Optimum equipment and system operation
- Qualified evaluation of equipment condition
- Long-term optimisation strategies

Maintenance and repairs.

- Personnel specifically qualified for your equipment
- Basis for extreme operational reliability
- Qualification of your personnel in the context of maintenance





We know the way. Worldwide.

As one of the international leaders in the manufacture of material handling systems for the conveying, loading, palletising, packaging, sortation and distribution technologies, we know the routes your products take and their respective specific properties. This knowledge is integrated into the development and construction processes of all our equipment and systems.

The proximity to our customers in every part of the world is maintained and ensured by a global sales and service network. Our workforce of almost 2,000, an annual turnover of EUR 350 million, our own subsidiaries and holdings, as well as manufacturing facilities in each continent and representatives in over

70 countries are the solid foundation of our export-orientated activities.

Our presence on the ground ensures individual adaptation to regionally varying requirements. Location-relevant solutions are the result of our constant close cooperation with our customers.

Our corporate philosophy.

Family spirit is a fundamental factor in the success of BEUMER as a globally operating concern.

Shareholders, executive management and staff are essential members of a community in which constructive cooperation is a significant element, representing our corporate philosophy. The owners' commitment to considerable reinvestment in the company is a

prerequisite for securing the future, and is the basis of the success-orientated partnerships between our company and our customers.





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BEUMER stretch hood® Specifications

Process:

Fully automatic hood/sleeve stretching

Packing material:

Gusseted film tube

Film thickness:

40 – 200 µm

Performance:

Max. 150 load units/h

Package height:

Up to 2,400 mm

Package sizes:

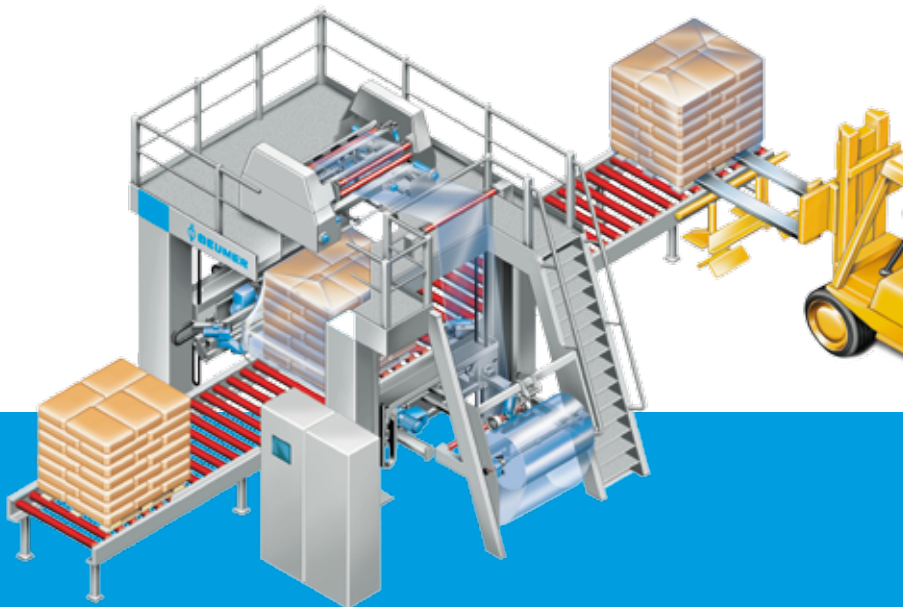
Max. 2,500 x 1,250 mm

Min. 500 x 500 mm

Special sizes on request

Power consumption:

≈ 0.13 kwh/package



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