

cimos

loos

# baling equipment

Stay in or go out? We protect ourselves against almost everything, indoors and on the move. Who can protect your goods during their journey and make sure they arrive in perfect condition? No matter what.

Willems Stretch Hooding is the answer to that question.

## Dust, rain or shine Permium Protection. Always.











04

stretchhooder.com

Stretch Hooding technology is an excellent alternative to traditional shrink or stretch wrapping systems. It offers increased load stability, complete weather protection, reduction in packaging material costs and labor savings. As a leading manufacturer of state-of-the-art packaging machines, Willems created a high quality and efficient solution for pallet stabilisation; the Stretch Hood machine. We offer the highest protection for pallet loads. To ensure minimum film usage and the best stability, our stretch hooders use vertical stretching forces to increase the load stability significantly; an innovative and unique

packaging method.



Full protection against dirt, dust and moisture, scratches and surface damages. Our unique stretch hood pallet wrapping machine produces secured pallet loads that are perfectly suitable for outside storage and transport.



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Willems is a **leading manufacturer** of state-of-the-art packaging machines.

Because we build the machines in-house, we offer enormous flexibility and excellent quality control. Our production is fitted with the finest equipment, which allows them to work accurately and efficiently. We employ highly-qualified specialists and utilise extremely advanced facilities for designing, fabricating, assembling, and thoroughly testing our machines. Our experts -with a lot of experience developing and building packaging machines- were triggered to build the ultimate stretch hood machine. They did so!

Willems Baling Equipment was established in 1992.

With pride we are looking back at many successes in designing and developing the ultimate packaging machines. When the ideas of experienced engineers and creative young designers meet, special things are happening.

Together we generate a massive capacity in solving complex packaging challenges.

Every day. For 30 years already.

And... the best is yet to come.



#### COMPARE

#### Schrink Hood Stretch Hood

Stretch Wrap

Holding strength	****	***	***
Energy consumption	****	*	****
Film costs per pallet	****	**	****
Film reel changes	****	***	*
Film consumption	****	*	****
Optical properties	****	***	**
Film transparancy	****	****	***
Product presentation	****	***	***
Storage outside / waterproof	****	****	**
Capacity / pallets per hour	****	***	***
Printability	****	****	**
Pallet diversity	****	**	****
Loose film tails	****	****	*
Perforated film	****	****	****
Colored film	****	****	****
Attraction dust / dirt	****	****	****
Stability	****	**	****
Machine investment	****	***	****
Machine lifetime	****	****	****

Growth stretch hooding:



• Stretch Hood Shrink Hood • Stretch Wrap

\* = acceptable \*\*\* = good

\*\*\*\*\* = perfect

1111, L RAILWAYS CLOCK DESIGN A reliable, fully automated production line, delivering perfect products day in, day out.

08

## Continuit y



- No worries, no problems. The optimum return on your investment.
- Continuity, that's what really matters to be competitive and make a healthy profit.

09

Our company manufactures innovative packaging systems for all our customers worldwide. We have all the necessary expertise and facilities under one roof: mechanical and electrical engineering departments with state of the art 3D CAD and E-Plan software.

All systems are fully assembled, programmed and tested in our factory.

Advanced engineering, high tech design

The future of packaging technology is being developed today



All systems and machines are assembled, programmed and tested in our production plant.

We are continuously investing in stretch hooding technology and machine development.

By constantly improving our products, we commit to the process of developing stretch hood machines that are flexible, reliable, more efficient, more stable and guarantee the highest accuracy, safety and protection of your products and pallets.







Willems stretch hood packaging systems

Advantages for Hooder L and Hooder M:

- Maximum pallet stability with an up-to-date stretch hood system.
- Optimal weather protection due to watertight pallet packaging. Suitable for outside storage.
- Easy access to all moving parts at floor level or on the balcony for easy maintenance and inspection.
- Solid construction and low overall height.
- Horizontal and vertical stretching of film results in an excellent load stability and reduced film costs.

- The hood can be pulled down to the bottom edge of a pallet, to secure the load/stack to the pallet.
- The stretch hood machine is suited for different film rolls. The machine-settings will change automatically to the desired roll.
- High capacity / approx. 120 pallets per hour.
- No loose film ends.
- Minimum film reel changes.
- Easy label scanning due to high transparency



## hooder







Medium 1800 / 2400 / 3000

Large 2400 / 3500

from 600 x 800mm

to 1,200 x 1,100mm

min. 250mm - max. 3,000mm \*

(incl. pallet)

max. 1,300 x 1,100mm

offset max. 50mm

1,500Kg (standard)

up to 120 pallets per hour \*

500mm - 600mm (standard 600mm)

12mtr./min.

3x 400V, 50Hz + Earth + "0"

9.6 KW

max. 1,000mm

approx. 3,050 x 4,150 x 3,750mm\*

(LxWxH)

\* depending on Series

from 600 x 800mm

to 1,600 x 1,200mm

min. 250mm - max. 3,500mm \*

(incl. pallet)

max. 1,750 x 1,350mm

offset max. 75mm

1,500Kg (standard)

up to 80 pallets per hour \*

up to 1,400mm wide

500mm - 600mm (standard 600mm

12mtr./min.

3x 400V, 50Hz + Earth + "0"

14 KW

max. 1,000mm

approx. 3,400 x 4,930 x 4,390mm\*

(LxWxH)

15

120





# Clever design smart in every small part













## stretcher TS





## bundling machine



## insulation material

Packaging insulation sheets requires a special technique. Willems created a bundling machine that produces wide wrapping bands of transparent film. Wrapping the sheets with this creates a tight and stable whole. The wrapping straps can even be printed for prominent advertising and presentation.





# Spare parts Maintenance After sales Responsible partner Teleservice

467AS 50 FEREIDION

Willems builds robust machines to last for long. All integrated systems and electronics meet the highest standards so reliability is guaranteed. Our involvement does not stop when the system has been sold. Willems feels responsible for trouble free operation of the total production line, 24/7. Via built-in modems in machines, we can monitor data online and any malfuctions can be cured or even prevented from a distance. If necessary, we ensure that experienced specialists are available at your location to keep your production line in good condition. Everywhere, worldwide.





#### Stretch Hood film











- Polyethylene is a very friendly material for the environment. For the world production, only 1% of the total production of natural oil and natural gas is used.
- The production is **clean and efficient**: the expulsion of dangerous substances is minimal.
- By refining crude oil or gas, ethylene is obtained.
- This ethylene gas can be polymerised to plastic. After polymerisation we obtain the product polyethylene. Polyethylene film is produced by melting granulates of polyethylene at about 200 °C and pressing them together with compressed air through a circle matrix.
- The material then rises up like a balloon of plastic film.
- After cooling, rollers squeeze the film in a double layer, after which it is rolled up and ready for further processing.
- To add extra properties to the film, we can add additives to the material while extruding. Typical used properties are: colouring of films, removing static electricity, blocking of UV radiation, regulating the coefficient of friction, etc.
- Polyethylene is extremely suitable for recycling: it can be melted and re-used indefinitely. When it can't be re-used, it is an eminent fuel for energy provision.



**Quality** In manufacturing, a measure of excellence or a state of being free from defects, deficiencies and significant variations. It is brought about by strict and consistent commitment to certain standards that achieve uniformity of a product in order to satisfy specific customer or user requirements. ISO standard defines quality as "the totality of features and characteristics of a product or service that bears its ability to satisfy stated or implied needs."

Reliability 1. The ability of an apparatus, machine, or system to consistently perform its intended or required function or mission, on demand and without degradation or failure.
2. Manufacturing: The probability of failure-free performance over an item's useful life, or a specified timeframe, under specified environmental and duty-cycle conditions.

**Efficiency** The comparison of what is actually produced or performed with what can be achieved with the same consumption of resources (money, time, labour, etc.). It is an important factor in determination of productivity.



Since its foundation in 1992, **Willems** has grown into one of the industry leaders. Nowadays the Willems brand is synonymous with innovation and top quality. We invest in the latest developments in machine construction. Our designers work on machines that are safer, faster, more efficient and even more precise. Modern techniques and continuous improvements result in reliable machines that meet the highest standards of effectiveness.



All disciplines are represented in our enterprise; designers, constructors, production staff, service engineers. From the first ideas and sketches up to installing and adjusting machines on your location, our professionals are prepared for the job. Brilliant ideas from experienced engineers and creative designers come together to create smarter solutions.

Everyday. For 30 years... and counting

# Engineering

# Assembly

# Automation



## **Product range**

Willems offers total solutions for compressed packaging of bulky products; high quality machines for sorting, compressing, weighing, packaging and palletising. All of them easy to integrate into your production line.

## log shavers

#### Transport and processing of logs

Our systems for cross- and long-haul transport supply via step feeders the debarker and log shaver.

Log shavers are equipped with advanced interchangeable blade cassette for optimised production.

## bulk handling and storage

Not only the machines, but the entire logistics of production can be delivered by Willems turnkey. Screens, transportation and storage systems belong to this. Drum screen for separation in two formats; small parts fall through the screen, large parts remain. Star screen to remove large parts from the product too. Shake screen separates the product in different roughnesses: A / B / too large parts. Airscreen for product-specific applications.

Chain conveyors, infeed systems and redlers

Horizontal and conductive screws with various

dimensions and capacities, depending on the product. Stationary and conveying floor bunkers or bunkers with screws for storage are being produced to the clients specifications.

balers

Willems supplies horizontal and vertical balers for compressed packaging of various products. Depending on your wishes, our presses produce bales with weights between 1 and 1500 kg. **Products:** Alfalfa, bark, cellulose fibres, flax, fiberglass, glass wool, grass, hay or straw, hemp fibre, insulation material, corn, mulch, nylon fibres, paper pulp, potting soil, compost soil, pulp fibres, sawdust, short dusty fibres, silage, substrates, synthetic fibres, peat, wood chips, wood shavings, etc ... Bundling machines for merging small packages. The machine collects products, packs two pieces of foil on roll and draws the film over the formatted products.

Form filling machine for pellets and other release products. Capacity: Depending on product specifications tailored to customer requirements.

FFS machines (Form Fill Seal) for the disposal of bulk products.

## robots

Our high end robot palletising systems can be easily adjusted to requested, constantly changing product specifications and sizes. For example for stacking bags, bales or barrels.

## pallet packaging machines

Our experience in designing and building high-guality packaging systems led to the ultimate stretch hooder machines. These offer an excellent solution for a large number of pallet packaging needs during storage and transportation.

We develop logical software for intuitive operation via a touch screen on which complex systems, mechanical processes and movements in the machine are being visualised.

Online Teleservice Monitoring (OTM) allows us to analyse machine data remotely. Possible problems can be cured (or even prevented) using our online remedies. OTM is our advanced diagnostic system in which potential malfunctions are defined for all machines. Anywhere in the world.









### Log shavers

- Tree transport, cross and along
- Singulator, stepfeeder, debarker
- Log shavers

### Bulk handling and storage

- Stationary and conveying floor bunkers
- Chain conveyors, infeed systems, redlers and air transport
- Screens
- Truck loading- and unloading systems

### **Baling equipment**

- Balers
- Flatfoil machines
- Lowering machines
- Bundling machines

## Robots

- Robot palletising systems
- Product handling and transport
- Pallet transport

#### Pallet packaging machines

- Stretch hooders
- Bricks packaging machines
- Insulation sheets bundling machines

## **Product brochures**





top quality from The Netherlands



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