



log shavers



**Wilens**  
baling equipment

Wood has a beautiful appearance and is good to handle. That's why it is often used for the production of cabinets, tables, chairs, doors, floors, et cetera.

But wood has also got insulating qualities and is absorbent which makes wood shavings suitable as soil coverings in chicken stables and horse stables; soft, warm and hygienic for the animals and easy to refresh. Production forests provide the trees of which lumber is made, and also can be transformed into wood shavings.

Willem's supplies machines to handle logs and for the production of wood shavings.

The unique qualities of wood  
**One of our oldest raw materials.**



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**Sawdust** consists of small wood particles, which arise from wood sawing. Used, among other things, as a floor covering in stables or circus, for making particleboard, for spilled crude oil, or in the form of pellets as fuel. Previously also used as a padding for handmade dolls.

**Wood shavings** Wood chipboard that comes loose when the wood is shaved. It curls due to the thin thickness. Product qualities (insulating, moisture absorbing, heat retention, noise damping) makes wood shavings useful as floor coverings in stables and cages.



It seems so simple; making wood trusses of a tree trunk. Still, it takes a lot of effort and expertise. Trees are pure nature and their mechanical processing places high demands on the equipment.

The bark must be removed first. This is not waste, but can be processed as a full product; it's a good soil cover.

The trunks are imported into a machine in which they are shaved into wood shavings. The reduction of the slim knives is adjustable so that wood shavings are produced in exactly the desired size.

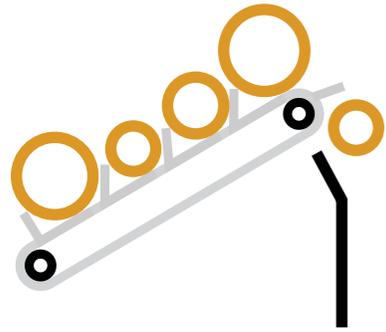
Willems developed an innovative shaving cassette system that is simple and fast to exchange. For example, blades are cut into the shavings roll by a specially designed grinding machine, while another shave cassette has been repositioned and production continues.

As a leading manufacturer worldwide, Willems has a lot of experience in producing wood shavings and sawdust plus the perfect compression to optimal density.

Consequently, the product retains its specs and can be wrapped in practical rectangular bale. Ideal for transport to the final location of use; the horse box, the stable, the chicken ridge or the cage of your hamster, rabbit or guinea pig...



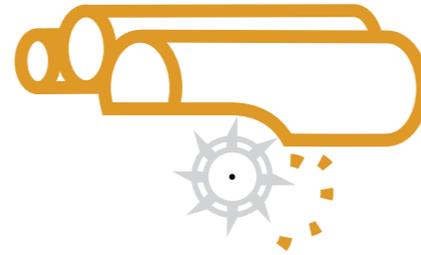
**Willems**  
baling equipment



Variable input

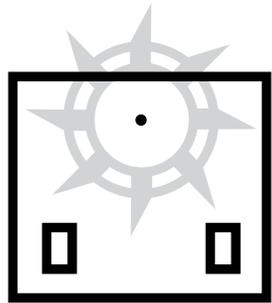


Fast and efficient

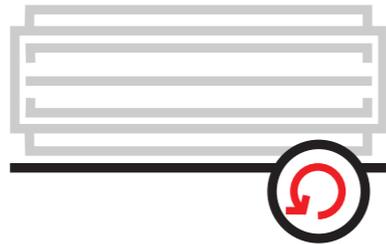


Sharp cutterheads save energy and provide constant results

### UNIQUE SPECIFICATIONS



Exchangeable cutterhead cassettes for fast and save in- and output



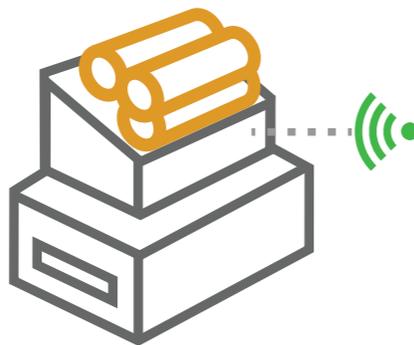
Fully automated sharpening guarantees sharp knives



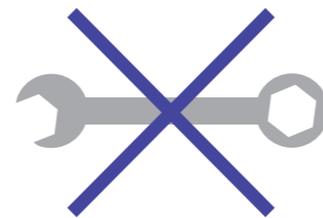
Optimum monitoring via touch screen



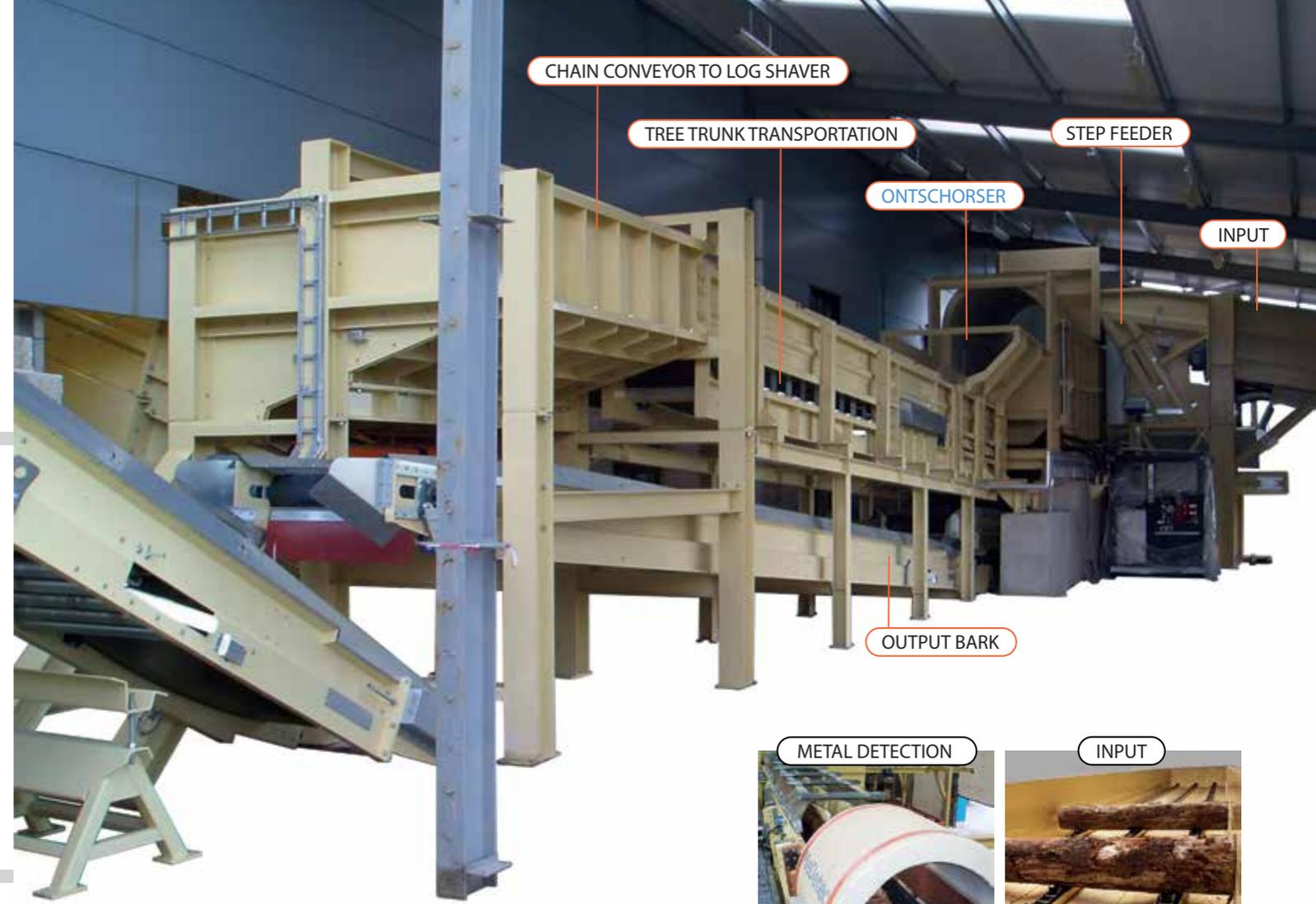
Adjustable size of wood shavings



Long distance service



Minimal maintenance



CHAIN CONVEYOR TO LOG SHAVER

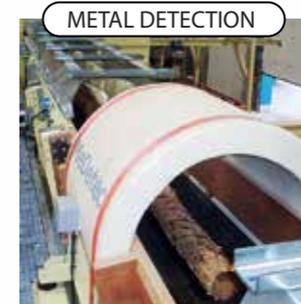
TREE TRUNK TRANSPORTATION

ONTSCHORSER

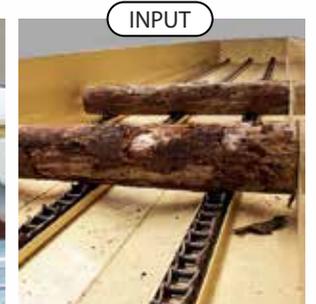
STEP FEEDER

INPUT

OUTPUT BARK



METAL DETECTION



INPUT



SHUTTLE



SINGULATOR & STEP FEEDER



# infeed system

Willems developed techniques to make an excellent wood curling. The log shavers can be installed in **three capacities; single, double or triple.**

With these log shavers, wood shavings are produced in various sizes; width, length and thickness of the curl can be adjusted as desired.

The stationary input bunker allows automatic input, which contributes to better continuity.

A specially developed system with interchangeable cutterhead cassettes is another plus for better continuity. When the knives are used for a while, the complete cassette can be replaced in a few minutes by another cassette with sharpened knives. Meanwhile, the knives in the replaced cassette are fully automated sharpened and this cutterhead cassette is ready again for optimal shaving work.



Log shavers with three capacities:

**WLS-1H-1C**  
- single

Input  
- solid wood  
- m<sup>3</sup> every hour

Output  
- oversize + curls + oversize  
- after drying  
- tons every hour

7 - 7.5

2.8 - 3

**WLS-2H-2C**  
- double

14 - 15

5.6 - 6

**WLS-3H-3C**  
- triple

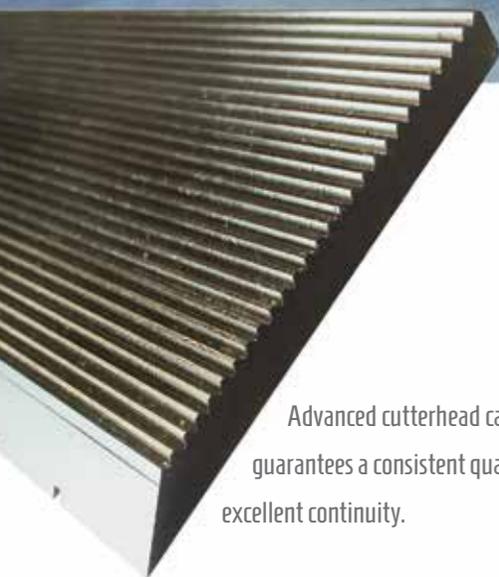
21 - 22

8.4 - 8.8



## log shavers





Advanced cutterhead cassette system guarantees a consistent quality and excellent continuity.



# Spare parts Maintenance After sales Responsible partner Teleservice

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 malfunctions can be cured or even prevented from a distance.

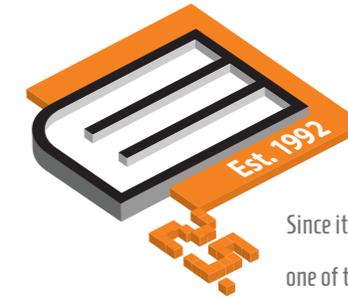
If necessary, we ensure that experienced specialists are available at your location to keep your production line in good condition.

Everywhere, worldwide.





**Clever design**  
smart in every small part



Since its foundation in 1992, **Willem's** has grown into one of the industry leaders. Nowadays the Willem's 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 more than 25 years.

**Willem's**  
baling equipment

# 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, fiber-glass, 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-quality 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.

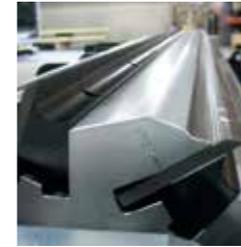
We develop logical software for **intuitive operation** via a touch screen on which complex systems, mechanical processes and movements in the machine are being visualised.

**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.

# Product brochures

## 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

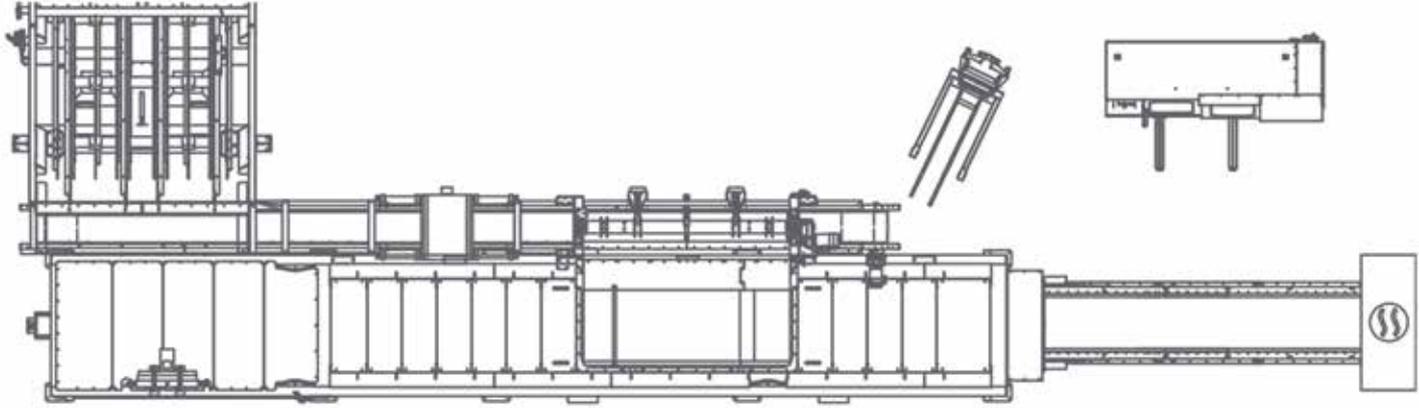
- Robot palletising systems
- Product handling and transport
- Pallet transport



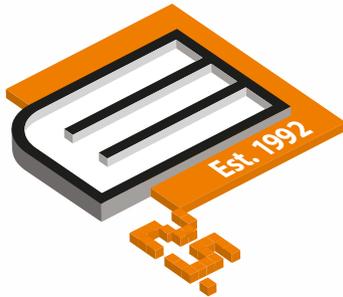
## Pallet packaging machines

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





top quality from The Netherlands



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