



Manure robots
Manure scrapers
Feed pushers
Royal Mat
Claw Clean System

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SLURRY HANDLING SYSTEMS

Both cattle farmer and animal are central to us. Our solutions and services for the stable maintain a natural environment for the animal and improve the cattle farmer's efficiency.

Home of the clean stable

www.joz.nl/en

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Just as reliable as the turning chain system, this simple and flexible system is suitable for all kinds of situations and is available with a mechanical or hydraulic drive unit.

5 Slatted floor scraper

This scraper system keeps the slats in every shed cubicle clean and dry. This means it helps to prevent hoof problems and increase milk production.

6 Electric herding fence and control panel

An Electric herding fence fitted on a slurry scraper gives your slurry scraper a dual function.

7 Combiscrapper

The combiscrapper cleans flat and sloping concrete floors. It's quick and easy to fit, without requiring many alterations to concrete structures.

8 Lifting Slats

Convenient for people and animals, and enables construction cost savings.

9 Cow comfort

Whatever kind of floor you have in mind; JOZ has a tailor-made solution.

10 Deltascrapper

JOZ produces a range of scrapers that are both eco- and animal-friendly.

11 Turning Chain System

This is a mucking out system that JOZ has been producing for many years. You can depend on it completely. It's still used today in many tie-up cow sheds and side-discharge systems.



JOZ: more than 65 years experience in slurry handling systems

JOZ is the pre-eminent specialist for any challenges involving slurry handling. The company has built up an excellent reputation in the market thanks to its innovative strategy of improving existing systems and developing new ones. Strict cost control is also part of the company's successful strategy. JOZ has fifty years' experience including its pioneering period, when there was very little knowhow to draw on in the slurry handling sector.

Solutions for the individual cattle farmer

JOZ solves the problem at the source. It's a fact that every farmer is unique and requires a slurry handling system that fits in seamlessly with the livestock unit's existing layout and the available budget. The system must also meet all government requirements.

A scraper for every type of stable floor

JOZ can supply slurry scrapers for any type of floor, regardless of whether it's a floor in a livestock unit for dairy cattle, beef cattle, pigs, ducks, chickens or horses. JOZ can provide a specific solution for all your special requirements and applications.

Spare Parts and Service

Farmers who choose a JOZ slurry handling system don't have to worry about breakdowns; we only use tried and tested high-quality materials that guarantee a long operating life and trouble-free operation. If an unexpected breakdown does occur, the JOZ breakdown service or the nearest dealer will take care of the problem and solve it. Regular service of the system extends its operating life time. You can take out a service contract with JOZ free of charge to guarantee proper maintenance and trouble-free operation.



Slatted floor scraper

Dry floor

A gridscraper is working well if the slats are clean and dry after the scraper has moved across them. The JOZ range includes two types of gridscrapers to achieve that:

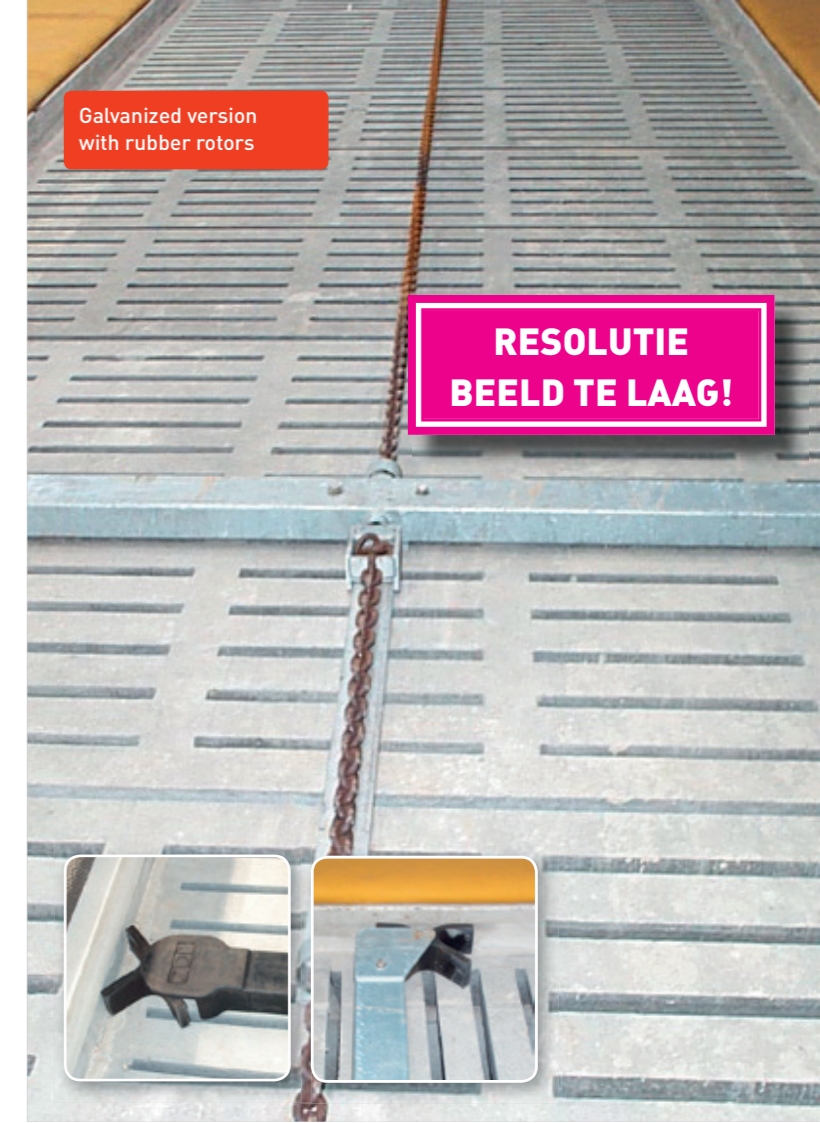
- the familiar galvanized version with rubber rotors
- the rubberised version either with or without rubber rotors

No lateral guidance

A big advantage of the JOZ gridscraper is that there is no need for lateral guidance. Specially designed rubber rotors at both sides of the scraper effortlessly guide the scraper around the support posts of feed barriers, waterpipe lines and cows' tails. If there are passageways with odd lengths, the JOZ gridscraper can be used without any problem for a chain, cable or dynachord.

Automatic Control

The scraper is pulled along the floor by a steel wire, chain or dynachord and driven by an extremely quiet electric motor. It moves at 4 metres per minute (13 ft/minute). The latest JOZ electronic control panel enables the system's movement to be controlled automatically.



Advantages of the gridscraper:

- hygienic milking, which can contribute to a higher milk quality;
- less slurry on the slats, meaning fewer hoof problems and cleaner cubicles;
- less slurry behind the cubicles, so cows are kept cleaner;
- less washing meaning quicker milking;
- less use of sawdust or straw in the cubicles;



Technical specifications:

- motor: - electric motor: 0.55/0.75 KW; 220/380 Volt;
- drive unit: full oil bath, gear wheel transmission, output 5.4 rpm;
- scraper travel speed: 4 m/min (13 ft/minute);
- corner roller: diameter 290 mm, wear-resistant alloyed cast iron, with hardened steel shaft;
- control panel, 220V, with pulse emitters and adjustable clock timer or manual override;
- chain: heavy-duty hardened steel 13 mm chain;
- steel cable: 6 mm steel cable with 1 mm plastic coating
- or Dyna-chord 10 mm.

Electric herding fence / Electronic control panel



Slatted floor scraper fitted with electric herding fence



The combined scraper and Electric Dog can be controlled from the milking parlour using the new control panel!

The benefits of simplicity

A JOZ scraper ensures your concrete or slatted floor is optimally cleaned. The benefits for you are: cleaner cows and lower veterinarian costs. However, your slurry scraper can do more than you might think. JOZ slurry scrapers can be easily fitted with an Electric herding fence.

The JOZ scraper system is used as transport for the Electric herding fence, which is fitted to the scraper prior to milking. With an extra pushbutton in the milking parlour you can make the scraper move the necessary distance, which can be adjusted as required.

The cows will be guided slowly and quietly towards the milking parlour, and, if necessary, they can be encouraged to keep moving by low-level electric pulses emitted by the Electric herding fence. So you never have to leave the milking parlour to bring in the last cows. The new electronic control panel means that this option is available on any JOZ slurry handling system.

New Electronic Control Panel with microprocessor operation

The new JOZ control panel is provided with the optional "Electric herding fence" facility and the frost-protection system, which is integrated in the control panel. With the new control panel there is also less strain on the entire scraper system. This is because the control is not working on a "point

weights system", but by using sensors to read the distance that has to be travelled.

This provides the following advantages:

- greater certainty in the shed for people and animals
- one control panel suitable for operating two systems
- power supply 220 V
- integrated frost-protection system and Electric herding fence;
- adjustable parking position for the scraper;
- adjustable starting position for the Electric herding fence;
- user-friendly settings menu;
- longer operating life of steel cable/dynachord;
- longer operating life of the 13 mm chain;
- longer operating life of the drive wheel;
- longer operating life of the gear wheel transmission unit.

The new electronic control panel is equipped as standard with an automatic re-start system and a system that determines the parking position of the scrapers; a frost-protection system is available as an option, to prevent the slurry scraper from freezing.

Combiscraper for cattle farm

Advantages of the combiscraper:

- cleaner work, which leads to better quality milk;
- savings on shed construction costs thanks to simple assembly;
- movable, for example if the shed is extended;
- the combiscraper has a strong construction to make it dependable and durable;
- regardless of the floor you purchase, the JOZ combiscraper can be fitted almost anywhere.

Technical specifications:

- combiscraper: material 100 kg steel; height 21 cm;
- motor: 0.55/0.75 KW; 220 Volt / 380 Volt;
- drive unit: full oil bath, gear wheel transmission, output 5.4 rpm;
- scraper travel speed: 4 m/min (13 ft/minute);
- corner roller: diameter 290 mm, wear-resistant alloyed cast iron, with hardened steel shaft;
- control panel: 220 Volt, maximum current protection, with adjustable timer and manual override;
- chain: heavy-duty hardened steel 13 mm chain;
- steel cable: 6 mm cable covered with 1 mm plastic coating, or rope.



JOZ Combiscraper on Plus Floor



Combiscraper for practically every type of floor

The JOZ combiscraper is specially designed for stables with concrete floors. The floors may be either smooth with a channel at fixed distances or sloping floors, with the liquid manure running inwards. This makes it an extremely all-round scraper. A combiscraper with optional synthetic rubber wear-strips also gives an even cleaner floor.

No structural alterations to buildings

The combiscraper is easily and quickly assembled in any stable. The entire system is fitted to a flat floor, which means enormous savings on stable construction costs are possible. It is also suitable for passageways of odd lengths.



JOZ Combiscraper on rubber floor





Traditional channel with grids



Letterbox construction above channel



JOZ Lifting slats

Cow comfort

Cow comfort determines your results too

Farmers often think of cow comfort as an unaffordable luxury. Nothing could be further from the truth! In fact cow comfort is an important economic parameter in your business and can partly determine whether you make a profit or a loss. Cow comfort, animal welfare and livestock hygiene cannot be considered as three separate issues. They largely influence each other and have to form part of an overall solution.

JOZ Slurry Scraper: greater cow comfort

When we think of cow comfort we usually think of automatic back brushes, cubicles with plenty of straw or sawdust and a fresh climate in the livestock unit. However, the state of the floor also affects animal comfort. No animal can move quickly and easily on an uneven, slippery floor. A JOZ slurry scraper makes a big improvement. You see the result immediately: a more comfortable environment for your animals.

Different types of floors

The type of floor obviously also determines how easy it is for your animals to walk on it, which in turn also affects animal comfort. More stringent environmental requirements and amendments to legislation also impose restrictions on the type of floor you can choose. Regardless of the type of floor, JOZ can supply the right slurry removal system for it.



Rubber mat with JOZ Combiscraper. These scrapers are designed especially for floors with rubber mats or concrete floors with a chequered pattern

Channel possibilities

Run off on grid

If you work with a concrete floor, the slurry has to be transported to a discharge channel, which is usually at one end of the shed. If the stable is very long, it may have a channel in the middle or sometimes a little away from the middle. In most cases like this the combiscraper runs the slurry through a grid above the channel. Not all the slurry runs through the grid, as long straw and silage won't run off but will be left behind on the grid.

guides the scraper back through the slat and closes it again. The advantage of this system is that there are no obstacles for cows or tractors in the passageway. The system is suitable for "green label" systems too. JOZ lifting slats don't require any complex constructions either. All that is necessary is an opening above the slurry channel so that JOZ can fit the lifting slat in place.

Letterbox

The letterbox was introduced as a solution. This is a raised section at the end or in the middle of the cubicle house, where the scraper runs underneath a concrete panel and drops the slurry, along with the straw and silage waste into the channel. In spite of its many advantages, the letterbox is an obstacle for cows. It is also a considerable obstacle when you have to drive a tractor into the passageway.

JOZ Lifting Slats

JOZ developed the lifting slat as an alternative. The scraper lifts the slat and discharges the slurry into the channel. The latest JOZ electronic control technology then automatically



Plus floor



Welfare floor



The deltascraper is the perfect solution for a shed where long straw is used for bedding.

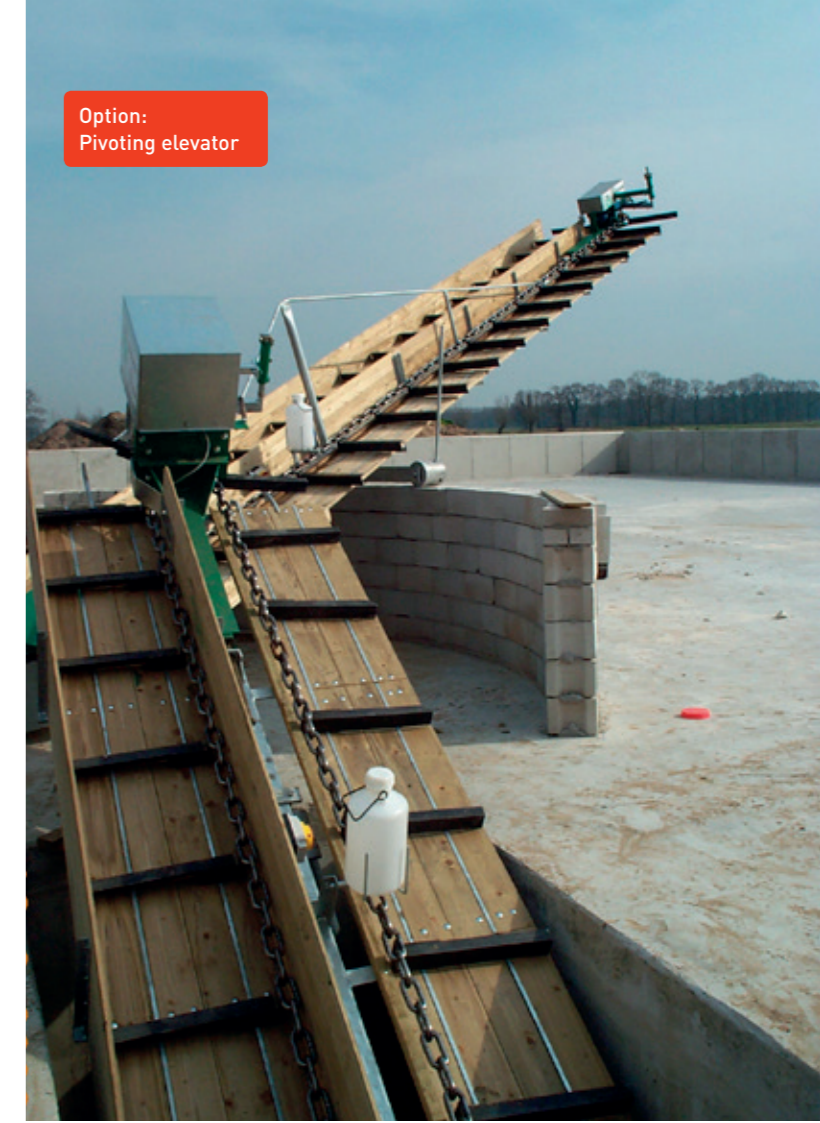
Turning chain system

Traditional systems in modern times

JOZ has been supplying the turning chain system for many years and it is still widely used. The fact that many of those supplied are ordered to replace existing systems shows this JOZ muck handling system has amply proved its worth. It is precisely the system's simplicity and reliability that make it so popular.

New applications

The turning chain system is often used in combination with JOZ scrapers. The scraper pushes the dung from the cubicles or through the sloping floor stable to the end of the dung passage, where it runs off onto the turning chain system. The turning chain system then quickly and reliably transports the dung to the dung heap.



Option:
Pivoting elevator

Deltascraper

Deltascraper for cattle farm

The deltascraper is the most suitable scraper for cubicle houses and sloping floor stables that use long straw for bedding. The U-profile guide in the middle of the floor gives the scraper stability.

The scraper pushes the muck to the end of the passageway, where a turning chain system, for example, transports it to the dung heap. The run-off can be phased using the new electronic control panel. Large amounts of straw discharged onto a slowly moving or narrow scraper rod or turning chain system could block the system. This can be prevented by phasing the run-off.

Deltascraper for a passage with varying widths

The deltascraper is the solution when part of the passage has a different width. The scraper adjusts without any problem and without leaving any muck behind.

Scraper for pig farms

With this system, the pigs stand on a slatted floor. The pigs tread the muck through the grid slats and it falls onto a second floor underneath. To minimise ammonia emissions, a scraper immediately pushes the muck away to a muck pit.

The muck is transported from there to a storage place. Concrete floors with muck containing a lot of straw are also being used more often in pig farming and, naturally, JOZ has a solution for these too.



Technical specifications:

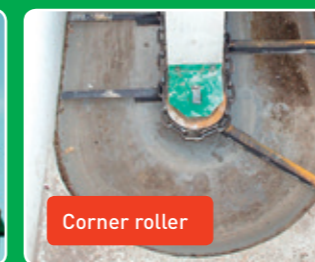
See page 5 [Combiscraper] for the technical specifications of the drive unit for the deltascraper.

Advantages of the turning chain system:

- solid and reliable construction;
- attractive price;
- long operating life thanks to the use of high-quality materials;
- fully protected.

Technical specifications:

- motor: 1.5 – 2.2 KW; 380 V;
- drive unit: full oil bath, gear wheel transmission, output 5.3 rpm;
- scraper travel: 5.1 m/min (16.5 ft/minute);
- corner roller: diameter 330 mm, wear-resistant alloyed cast iron, with hardened steel shaft;
- control panel: 380 V; maximum current protection;
- chain: 16 mm steel (Corten A steel USA pat.), wear-resistant and corrosion-resistant;
- self-supporting elevator.



Corner roller



The familiar
turning chain system



Automatic
lubrication system



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Route

Coming from Leeuwarden

Take the A7 motorway towards Amsterdam. Take the exit 'Hoorn-Noord, Enkhuizen, Lelystad' and follow the signs 'Enkhuizen, Lelystad'. Then take the exit 'Westwoud'. Continue along this road to the three-forked junction and turn left. Follow this road as far as café 'De Lindeboom' and turn right. About 50 metres before the railway crossing turn right again and you will be on Industrieweg.

Coming from Amsterdam/Utrecht

Take the A7 motorway towards Leeuwarden. Take the exit 'Hoorn-Noord, Enkhuizen, Lelystad' and follow the signs 'Enkhuizen, Lelystad'. Then take the exit 'Westwoud'. Continue along this road to the three-forked junction and turn left. Follow this road as far as café 'De Lindeboom' and turn right. About 50 metres before the railway crossing turn right again and you will be on Industrieweg.

Coming from Lelystad

Take the dyke towards Enkhuizen. At Enkhuizen follow the N-302 towards Hoorn. Then take the exit 'Westwoud'. Continue along this road to the three-forked junction and turn left. Follow this road as far as café 'De Lindeboom' and turn right. About 50 metres before the railway crossing turn right again and you will be on Industrieweg.

JOZ Dealer:

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