

Manure robots
Manure scrapers
Feed pushers
Royal Mat



INNOVATIVE SYSTEMS AND ROBOTS FOR EVERY BARN

Home of the clean stable

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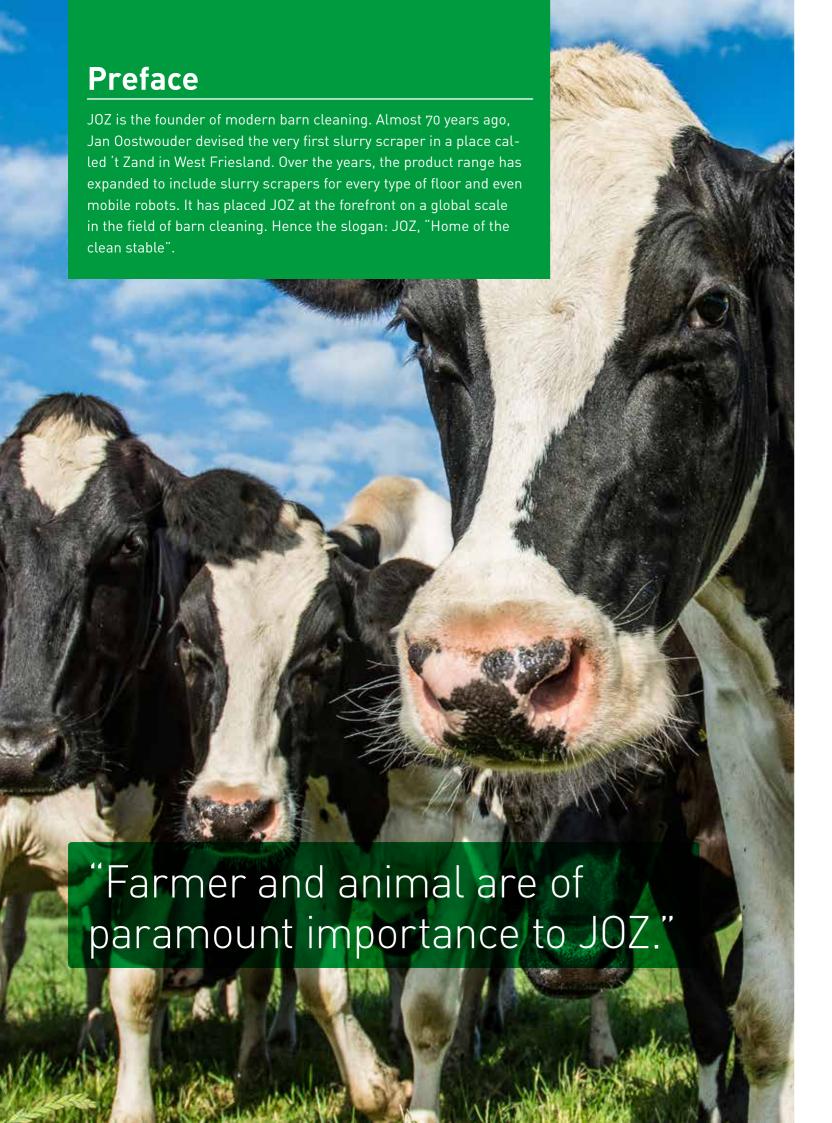
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Version 1

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JOZ changes the world of the farmer.

JOZ, SPECIALIST IN BARN CLEANING, IS ON THE BRINK OF AN IMPORTANT PERI-OD OF INNOVATION AND IMPROVEMENT ALMOST 70 YEARS AFTER THE COMPANY FROM WESTWOUD MADE HISTORY WITH THE INTRODUCTION OF THE VERY FIRST MANURE DISPOSAL SYSTEM. 'JOZ IS TRANSFORMING IN THE COMING PERIOD FROM A PRODUCTION-ORIENTED BUSI-NESS TO A KNOWLEDGE-ORIENTED BUSI-NESS. WE ARE WORKING ON ACHIEVING HIGHER INTELLIGENCE FROM OUR PRO-DUCTS, PROCESSES AND ORGANISATION', SAYS RICK ELLING, GENERAL MANGER. AND THAT WILL HAVE SUBSTANTIAL CON-SEQUENCES FOR THE MODERN FARMER.



JOZ will present a new portfolio with smart, mobile robots to be used barns. In addition, our service will include coaching and unburdening. Both the farmer and the dealer will benefit from the new JOZ Coach & Care programme. Within this programme, the focus will primarily be on prevention. 'A failure is an absolute disaster for a farmer', says Elling. 'All processes in the barn have to run smoothly, day and night. It is therefore of great value that our modern technology is able to detect a failure before it has arisen.'

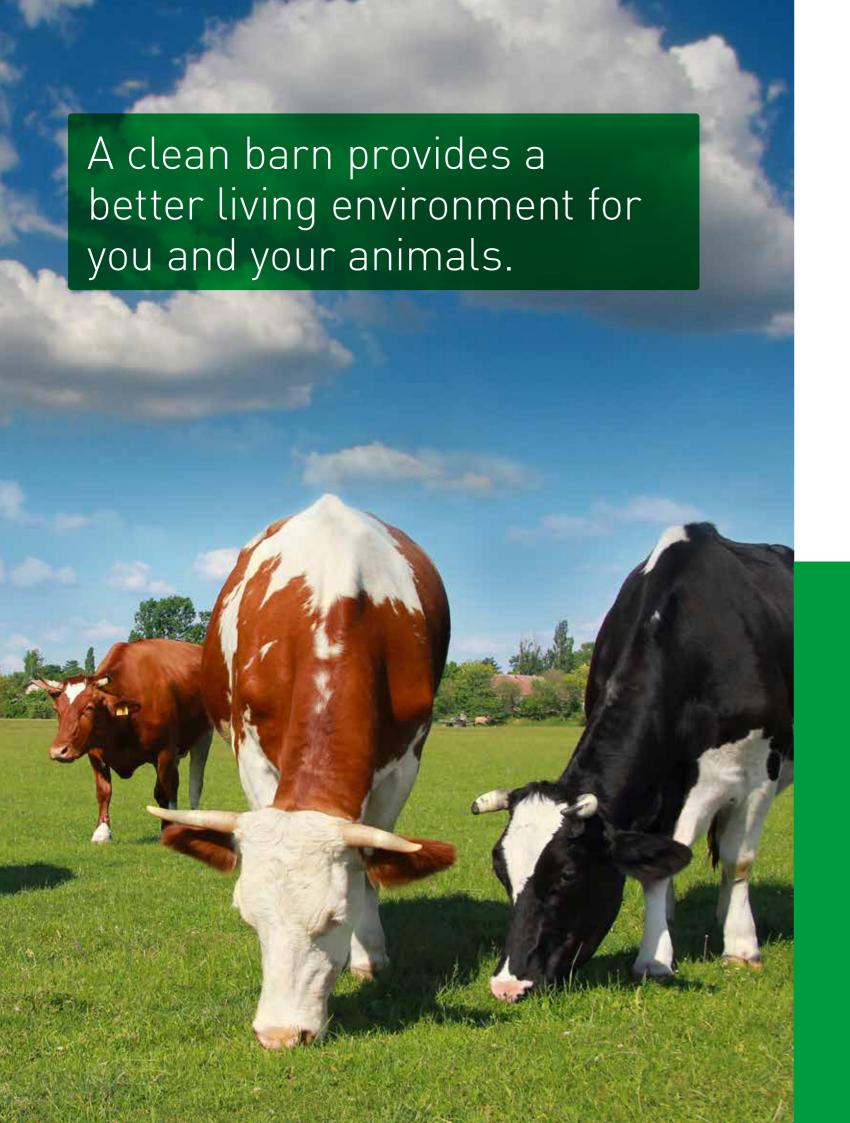
Not only the farmer but also the dealer will benefit from the new JOZ Coach & Care programme. Elling: 'Suppose a dealer replaces parts on one of our mobile robots, the system will ensure that the dealer automatically receives these parts again for future use. He does not have to monitor that himself.'

Service will therefore become a matter of unburdening. Moreover, JOZ undertakes the important task of fully supporting the farmer and the dealer when using our products.

Elling: 'Our mobile robots will communicate with each other, so that they can work together as a team. It will produce much better results for the farmer. The dealers can also rely on support with their planning and implementation of maintenance.'

JOZ wants to be a learning organisation in which innovation is a continuous process. To achieve this, JOZ makes grateful use of the knowledge and experience of both farmers and dealers as well as our own employees. If the introduction and implementation of ideas for innovations and improvements becomes a continuous process, the products and services of JOZ will always operate in accordance with the latest technology.

'Farmer and animal are of paramount importance to us', says Elling. 'Our solutions and services for the barn help us to maintain the natural surroundings of the animal and improve the efficiency of the farmer. Customer satisfaction is embedded in our minds. To keep our customers satisfied, our products and services must provide important and transparent added value. Quality and sustainability are paramount. Only when we continue to lead the market can we make life as easy as possible for the farmers and our dealers.'



Moov FEED PUSHER





Moov

THE MOOV FEED PUSHING ROBOT IS A FULLY AUTOMATIC ROBOT FOR DAIRY CATTLE STABLES. WITH THE MOOV YOUR CATTLE STOCK WILL HAVE 24/7 ACCESS TO FRESH FEED.

The Moov scrapes the feed passage clean at times selected by you. The robot follows transponders; this allows the robot to know where it is in the stable at all times. The robot has two maintenance-free AGM batteries. Charging occurs automatically on the J-Load that can be placed in the stable.

Safety

This robust robot is equipped with motor overcurrent safety and JOZ's unique collision security system. The robot also has an adjustable sound signal and an emergency stop button.

Several routes

You can program an unlimited number of routes. This makes it possible to push feed for more than one feed group individually.

Programming is simple and only needs to take place once. The combination of transponders and the gyroscope ensure that the robot always drives perfectly through the feed passage.

Operation of the robot

The two (24V) batteries ensure a high driving capacity and the power-driven drum ensures an optimal feed pushing result. There are no wallstrips needed on the floor to make the Moov operational.

JOZ unburdens the customer

The robot communicates with the J-Link on the J-Load





charging station wirelessly. The J-link is connected to the Internet. By means of the JOZ Management System (JMS) a user can check and set his Moov on a computer, tablet or smartphone. With this, service engineers always have access to the Moov. The JOZ Management System provides the user to check and control his robots on a computer, tablet or smartphone. With this service the engineers will also have access to their customers robots. JMS provides you with the right information 24/7. All this is to unburden the client.

New controls

The J-Touch offers the client unique ease of use. The new manual control has both push buttons and a touchscreen.





Technical data

Moov

Dimensions	W: 1273 x H:1000 mm
Moov:	
Dimensions	W: 1149 x H: 705 mm
drum:	
Weight:	645 kg
Normal driving:	6 m/min
Slow driving:	3 m/min
Electric motor:	2 x 130 Watt without carbon
	brushes
Batteries:	2x 12 volts (24 volt), 110 Ah, AGM
Driving capacity:	max. 19 hours a day
IP class:	IP65 splash waterproof
Detection:	Glass transponders and
	gyroscope
Drum:	Stainless Steel
Rubber of the	Wear-resistant and flexible
drum	

J-Touch

Dimensions:	W: 250 x H: 170 x D: 40 mm
Weight:	340 gr
Material:	Plastic (ABS)
IP class:	IP65 splash waterproof
Cable length:	2 m

J-Load

Size:	W: 400 x H:1039 x D: 217 mm
Weight:	17,5 kg
Power supply:	2x 230 volts
Charging voltage:	24 volts DC
Internet:	Yes (fixed connection)
Material:	Plastic (LDPE)
IP class:	IP65 splash waterproof
Communication:	Wireless Zigbee connection with
	robot





Advantages of the Moov:

- Increases feed intake
- Labour-saving
- Contributes to higher milk production
- Feed available 24/7 for all cows
- Better performance by low ranked
- Calmer cattle stock
- Clean feed passage
- Simple & user-friendly
- Better efficiency of milking robots
- less residual feed
- Easy monitoring with JMS

Article	No. I	Description
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08.100.001	Moov counterclockwise rotation and left side charging
08.100.002	Moov counterclockwise rotation and right side charging
08.100.003	Moov clockwise rotation and right side charging
08.100.004	Moov clockwise rotation and left side charging

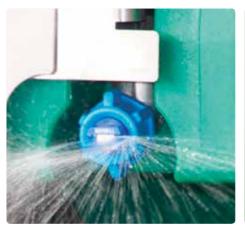
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Manure robots

JOZ-TECH JT200 EVO







THE JOZ-TECH MANURE ROBOT IS A FULLY-AUTOMATIC ROBOT FOR CLEANING DAIRY CATTLE STABLES. DUE TO ITS EXTREMELY HIGH CAPACITY THE FLOORS ARE ALWAYS CLEAN AND THE COWS AND RESTING BOXES WILL STAY VERY CLEAN.

At times selected by you the animal-friendly Tech will scrape the dung channels very clean. The robot follows transponders, as a result of which the robot always knows where it is in the stable. The renewed position measuring module has as much as 35% more transponder detection reach. The robot has two maintenance-free AGM batteries. Charging and taking on water takes place automatically on a charging station that can be placed in the stable, out of reach of the cows.

Suitable for practically all stables

The JOZ-Tech is suitable for practically all resting box stables. Large surfaces like waiting areas and very wide dung channels are no problem. The JOZ-Tech has a maximum driving capacity of approx. 18 hours. The JOZ-Tech can rotate on its own axis and due to this manoevrability it is possible to even clean the narrowest of dung channels and transverse corridors well.

Several cleaning routes

You can programme an infinite number of cleaning routes. This makes it possible to clean each part of the stable at specific times. You can clean the waiting areas after milking for example, and after feeding the JOZ-Tech does not clean near the feeding rack.

Programming is simple and only has to take place once per route. Transponders in the floor ensure that the robot always drives perfectly through the stable. Of course the JOZ-Tech can navigate without following a wall guidance or beam (free driving).

Spraying device

Ideal for optimal cleaning of dry areas in the stable. This spraying device with water tanks has a 100-litre capacity. The spraying device will automatically be filled on the special filling station and it will spray with front and/or rear sprayers, where necessary.

Lifting device

Uniquely programmed lifting system of the scraper, for example for crossing the passage or for driving up or down a steep incline.

JMS unburdens the customer

The robot communicates with the J-Link on the J-Load charging station wirelessly. The J-link is connected to the Internet. By means of the JOZ Management System (JMS) a user can check and set his JOZ-Tech on a computer, tablet or smartphone. With this, service engineers always have access to the JOZ-Tech. The JMS gives you access to the machines and the data 24/7. All this is to unburden the client.



Animal-friendly

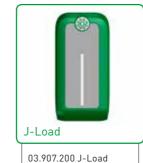
Due to the silent drive the JOZ-Tech is an extremely animal-friendly system that the cows are quickly used to. Moreover this robust robot is equipped with JOZ's unique cow safety system.

New controls

The J-Touch offers the client unique ease of use. The new manual control has both push buttons and a touchscreen.



20.100.000 J-Touch



Technical data

JOZ Tech JT200 EV0

JOZ-Tech JT200 Evo

Width:	730 mm (excl. scraper)
Length:	1430 mm
Height:	640 mm
Weight :	520 kg

JOZ-Tech JT200 Evo spray

Width:	966 mm (excl. scraper)
Length:	1469 mm
Height:	660 mm
Capacity:	2 x 50 litres
Weight:	550 kg (excl. Water)
Spraying capacity:	2 nozzles:
	286 linear metres
	4 nozzles:
	143 linear metres

SOZTECHIEN (

General

Scraper width :	Variable (100 to 210 cm)
Scraper width spray:	variable (125 to 210 cm)
Power:	Electric motor 165 W
	steering motor
Batteries :	110 Ah
Capacity:	2 x 12V
Scraping capacity :	Standard JOZ-Tech
	Max. 10.800 m2/day

The advantages of the JOZ-Tech:

- Clean and dry claws
- Cleaner freestalls and better hygiene
- Cleaner udders
- Labour-saving
- Cleans the entire floor surface, also along the front wall, waiting area and crossings
- Highest capacity
- Animal-friendly finish and featuring cow protection
- The perfect solution for your specific wishes:

Ask your dealer about the JOZ sales configurator



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JOZ-Tech + options

JOZ-Tech JT200 Evo standard



Article number: 03.9001000 up to and including 03.9002100

Scraper widths are possible per 5 cm between 100-210 cm. Stable-specific and custom-made.

- Including J-touch, J-load, 60 transponders, convenient dolly and JMS account.
- Adjustable scraper pressure.
- Conversion to watersprayer is possible.
- A lifting device is possible as an additional option.

Tip: Use the JOZ sales configurator to determine the ideal scraper width for your situation.

Spraying device



Article number: 03.9331300 up to and including 03.9332100

JOZ-Tech JT200 Evo including spraying device. Scraper width possible per 5 cm between 130-210 cm.

Spray technique:

- 100 liter water tanks.
- Spray nozzles at the front and back.
- Which zones are to be sprayed, and at what time, may be entered as desired.
- A lifting device is possible as an additional option.

Tip: Use the JOZ sales configurator to determine whether a spraying device is necessary for your situation





Lifting device



Article number: 03.900.001

- Lifting height of max. 7 cm.
- Suitable for a clean crossing of the feeding passage or for driving up or down an incline of max. 10%.

Tip: Use the JOZ sales configurator to determine whether a lifting device is necessary for your situation.

Drive units

ROPE | CABLE | CHAIN







Drive unit rope scraper systems

JOZ ROPE SCRAPERS CAN BE APPLIED ON SLATTED FLOORS, CONCRETE FLOORS, RUBBER FLOORS OR SPECIALLY DEVELOPED EMMISION REDUCTION FLOORS.



The rope scraper installations always contain 2 drive units. When one of the drive units is winding the rope, the other one will release the rope at the same time. Therefor it is not necessary to tension the system. Rope scraper systems are animal friendly and require little maintenance and service.

Drive units are available with mounting sets for concrete floors or slats.

In addition, the drive units are available with floor mounted drive unit and drive units on a console.

The JOZ rope scrapers are controlled, using a 380V electrical controlbox with timer and optional can contain frost sensing.

Corner rollers and scrapers are identical to the rollers being used on chain- and cablesystems.

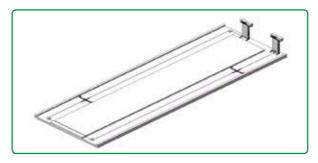




The advantages of a JOZ rope scraper:

- Rope is animal friendly.
- Little maintenance; installation does not need to be tensioned.
- To be applied for 1 or more manure
- Drive unit is fully galvanised
- Casing guarantees safe operation.
- Easy programmable switchboard.
- Frost protection guarantees trouble free operation in winter conditions (optional).
- Easy to set cow safety features.
- 0,75 kW motors with powerfull gearbox, directly connected to the motor.
- Drum can be disconnected from the motor to ensure easy mounting of the rope.
- Strong bearings for long lifetime.
- All types of JOZ scrapers can be applied on the JOZ rope system.
- Rope scrapers do not need a switch at the end of manure alleys. It reduces the chances on malfunctions.
- Available in 16mm rope and very strong 10mm Dyneema® rope. With use of 16mm rope the maximum length for 1 alley is 70 meters, with use of the 10mm Dyneema® rope it can be a lot more.

Possible situations

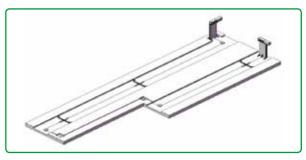


Drive unit in manure alley or cross alley

- 2x Drive unit
- 5x Corner roller
- 1x Control panel
- 2x Scrapers
- Rope

Notes:

- One system always includes two driving units
- 1 Control panel needed per system (2 driving units)
- High drive unit always needs strengthening



Unequal alley

- 2x Drive unit
- 7x Corner roller
- 1x Control panel
- 3x Scrapers
- Rope

Article numbers





Article No. Description

07.T73.000	High drive unit rope complete for concrete floor, excluding corner rollers
07.T73.100	High drive unit rope complete for slatted floor, excluding corner rollers
07.T73.200	Low drive unit rope complete for concrete floor, excluding corner rollers
07.T73.300	Low drive unit rope complete for slatted floor, excluding corner rollers
0J.000.050	Dyneema rope 10mm
0J.100.001	Polytex rope 16mm
03.019.100	Compression spring 'stand alone'
07.010.100	Control panel rope system

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Drive unit cable scraper systems

JOZ SUPPLIES MANURE SCRAPER SYSTEMS PROPELLED BY COATED STEEL CABLE. THE JOZ CABLE SCRAPER SYSTEMS CAN BE USED ON SLATTED FLOOR, CLOSED CONCRETE, RUBBER OR SPECIAL LOW-EMISSION FLOORS. A CABLE SCRAPER SYSTEM IS EQUIPPED WITH 1 DRIVE UNIT PER SYSTEM WHICH IS USED TO PULL THE CABLE BACK AND FORTH. THE CABLE IS DRIVEN ON THE DRIVE UNIT BY MEANS OF A DRIVE ROLLER OR PENTA SYSTEM.

Options

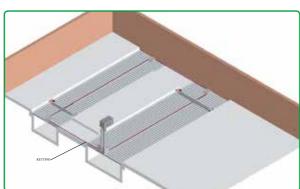
The drive units are available with mounting materials for a closed floor or a slatted floor. The drive can be conducted with 1 drive roller or with a Penta roller system (2 rolls).

The JOZ scrapers are operated by a 230 Volt electronic switch box with a timer, and can optionally be equipped with a frost protection. The corner roller boxes are the same as those used in rope or chain installations.

The advantages of a cable scraper installation:

- 1 drive unit per installation
- The cable must be able to make a rotary motion
- The cable is tensioned at the drive unit
- Suitable for concrete floors, slatted floors as well as low-emission floors
- Up to 4 manure alleys (depending on the length)
- Controlled by a JOZ electronic control panel
- Perfect cow protection
- Max. cable length 160 metres (max. alley length 70 metres)
- Gear boxes are installed on a vertical console, which can be mounted between the cows
- Unequal alley lengths are no problem whatsoever
- The system with the lowest investment!





Drive motor	Max. cable length
0,55 kW	100 m
0,75 kW	120 m
0,55 kW Penta	120 m
0,75 kW Penta	160 m

Article numbers:



Article No. Description

Assembly sl	ssembly slatted floor	
03.V73.110	JOZ drive unit cable / 0.55 kW/ for slatted floor, including tensioner	
03.P73.110	JOZ drive unit cable / 0.55 kW/ for slatted floor, including tensioner (Penta)	
03.V73Z110	JOZ drive unit cable / 0.75 kW/ for slatted floor, including tensioner	
03.P73Z110	JOZ drive unit cable / 0.75 kW/ for slatted floor, including tensioner (Penta)	
Assembly co	Assembly concrete floor	
03.V73.310	JOZ drive unit cable / 0.55 kW / for concrete floor, including tensioner	
03.P73.310	JOZ drive unit cable / 0.55 kW / for concrete floor, including tensioner (Penta)	
03.V73Z310	JOZ drive unit cable / 0.75 kW / for concrete floor, including tensioner	
03.P73Z310	JOZ drive unit cable / 0.75 kW / for concrete floor, including tensioner (Penta)	

Cable	
0J.000.031	Steel cable 6 mm core + 2 mm plastic, per metre
0J.000.003	Steel cable 8 mm core + 2 mm plastic, per metre

Options	
03.075.000	Fully automatic hydraulic tensioning device. Applicable to: - new drive units - conversion of existing drive units Note: Not suitable for 1.5 kW drive units
03.075.005	Filling pump automatic tensioner

Penta drive



03.073.050	Penta drive conversion kit for existing drive units
	(without motor)

Note: For Penta drive units only 6+2 mm cable is possible. (0J.000.031).

Drive unit chain scraper systems

JOZ SUPPLIES MANURE SCRAPER SYSTEMS PROPELLED BY EXTRA HARDENED STEEL CHAIN. THE JOZ CHAIN SCRAPER INSTALLATIONS CAN BE APPLIED TO SLATTED FLOOR, CLOSED CONCRETE, RUBBER OR SPECIAL LOW-EMISSION FLOORS. A CHAIN SCRAPER INSTALLATION IS EQUIPPED WITH 1 DRIVE UNIT PER SYSTEM WITH WHICH THE CHAIN IS PULLED BACK AND FORTH. THE CHAIN IS DRIVEN ON THE DRIVE UNITS BY MEANS OF A GYPSY WHEEL.

Options:

The drive units are available with mounting materials for a closed floor or a slatted floor. The strength of the drive is determined by the length of the stable, with the possibility of a $0.55~\rm kW$, $0.75~\rm kW$ or a $1.5~\rm kW$ motor.

The JOZ scrapers are operated by a 230 volt electronic switch box with a timer and can optionally be equipped with a frost protection. The corner roller boxes are the same as those used for cable or rope installations.

The advantages of a Chain Installation:

- Always 1 drive unit per installation.
- Up to 4 manure alleys (depending on the alley length)
- Suitable for concrete floors, slatted floor floors as well as low-emission floors
- Controlled by a JOZ electronic control panel
- Perfect cow protection, both with an empty and with a full scraper
- Max. chain length 350 metres (max. alley length 160 metres)*
- Gear boxes are installed on a vertical console, to be mounted between the cows or outside
- Unequal alley lengths are no problem whatsoever
- It is possible to combine a chain over the drive and a cable on the rear (not for unequal alleys)



- 4 sizes of drive sprockets for maximum life span of the chain
- The rear of the chain has twice the life span compared to the front

Drive motor	Max. cable length
0,55 kW	120 m
0,75 kW	240 m
1,5 kW	350 m

^{*}For longer chain lengths, please contact JOZ.

Article numbers





Article No. Description

Assembly sl	Assembly slatted floor floor	
03.V73Z210	JOZ drive unit with chain / 0.75 kW / for slatted floor, including tensioner	
03.V73.210	JOZ drive unit with chain / 0.55 kW / for slatted floor, including tensioner	
Assembly concrete floor		
03.V73.010	JOZ drive unit with chain / 0.55 kW / for concrete floor, including tensioner	
03.V73Z010	JOZ drive unit with chain / 0.75 kW / for concrete floor, including tensioner	
03.V735010	JOZ drive unit with chain / 1.5 kW / for concrete floor, including tensioner	

Chain	
0H.110.000	Chain 10 mm, per metre
0H.130.000	Chain 13 mm, per metre
0H.160.000	Chain 16 mm, per metre

^{*} At \rightarrow 50 metres in 1 piece, extra charge EUR 40.00 per welded connection or connecting link

Options	
03.075.000	Fully automatic hydraulic tensioning device. Applicable to: - New drive units - Conversion of existing drive units Note: Not suitable for 1.5 kW drive units
03.075.005	Filling pump automatic tensioner
<u> </u>	·

Attachments scraper systems



03.006.000 Corner roller on concrete floor 03.006.100 Corner roller on slatted floor, excl. rubber cover



0J.000.025 Liftsocket complete for 6-8mm cable



0J.000.125 Liftsocket special for 6-8mm cable / chain



03.001.000 Tensioner



03.075.005 Hydraulic tensioner



22

Article No. Description

0J.000.025	Liftsocket 6-8mm cable
0J.110.025	Liftsocket 8-10mm cable
0J.000.125	Liftsocket special for 6-8mm cable / chain
0J.110.125	Liftsocket special 8/10mm cable / chain
03.001.000	Tensioner for chain length of 200 meter or less
0H.130.030	3 Chain links 13mm

Slatted floor	
03.0061100	Set pressure rollers for slatted floor
03.006.100	Corner roller complete for slatted floor
03.006.400	Corner roller complete against the edge of cubicle, slatted floor
03.047.100	Corner roller for single alley, slatted floor
Companyla fla	
Concrete flo	or
03.0061000	Set pressure rollers for concrete floor
03.0061000	Set pressure rollers for concrete floor

Article numbers



Article No. Description

Set guide rails for long pit

03.990.021 | Short guide irons for pit complete

03.075.000 Console incl. hydraulic tensioner

Set guide rails for short pit (middle)

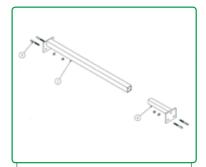
03.990.001

03.990.020

03.990.021 Short guide irons for pit complete



03.990.020 Set guide rails for short pit (middle)



03.990.001 Set guide rails for



Both animal and farmer are central to us.



Electronic control panel







Electronic control panel with microprocessor

THE UNIQUE JOZ SWITCH BOX DISTINGUISHES ITSELF BY COMMUNICATING WITH A PRECISION SENSOR ON THE DRIVE MOTOR, AS A RESULT. THE SWITCH BOX ALWAYS KNOWS THE POSITION OF THE SCRAPER IN THE MANURE ALLEY AND MANY SETTINGS ARE POSSIBLE THAT ALLOW THE JOZ MANURE SCRAPER TO BE ADAPTED PERFECTLY TO YOUR WISHES. ADDITIONALLY THIS SYSTEM PROVIDES UNIQUE COW PROTECTION.

THE JOZ COW PROTECTION EXISTS ESPECIALLY FOR YOUR COWS. THE JOZ COW PROTECTION IS ALWAYS TAILORED OPTIMALLY. WHETHER THE SCRAPER IS EMPTY OR FILLED WITH MANURE. THE SENSITIVITY OF THE COW PROTECTION CAN BE ADJUSTED BY MEANS OF THE SWITCH BOX.

Moreover, the electronic switch box is equipped as standard with an automatic restart function and a parking position determination of the scrapers; a frost protection option is also available, so it will never freeze stuck!

This offers among other things the following advantages:

- More security in the barn for both humans and animals
- One switch box is suitable for operating 2 installations
- Power supply is 230 V.
- Adjustable as desired:
- Parking position manure scraper
- Special position of the manure scraper at adjustable times (for example during milking)
- Phased discharge movements of the manure scraper
- Start position of the herding fence is adjustable
- User-friendly menu
- Alarm function



Article numbers







Article No. Description

03.320.210	Manure scraper control panel for 1 complete drive (0.55 kW + 0.75 kW)
03.320.211	Manure scraper control panel for 2 complete drives (0.55 kW + 0.75 kW)
03.320.217	Manure scraper control panel for 1 complete drive 1.5 kW (including power control unit)
03.320.218	Manure scraper control panel for 2 complete drives 1.5 kW (including power control unit)

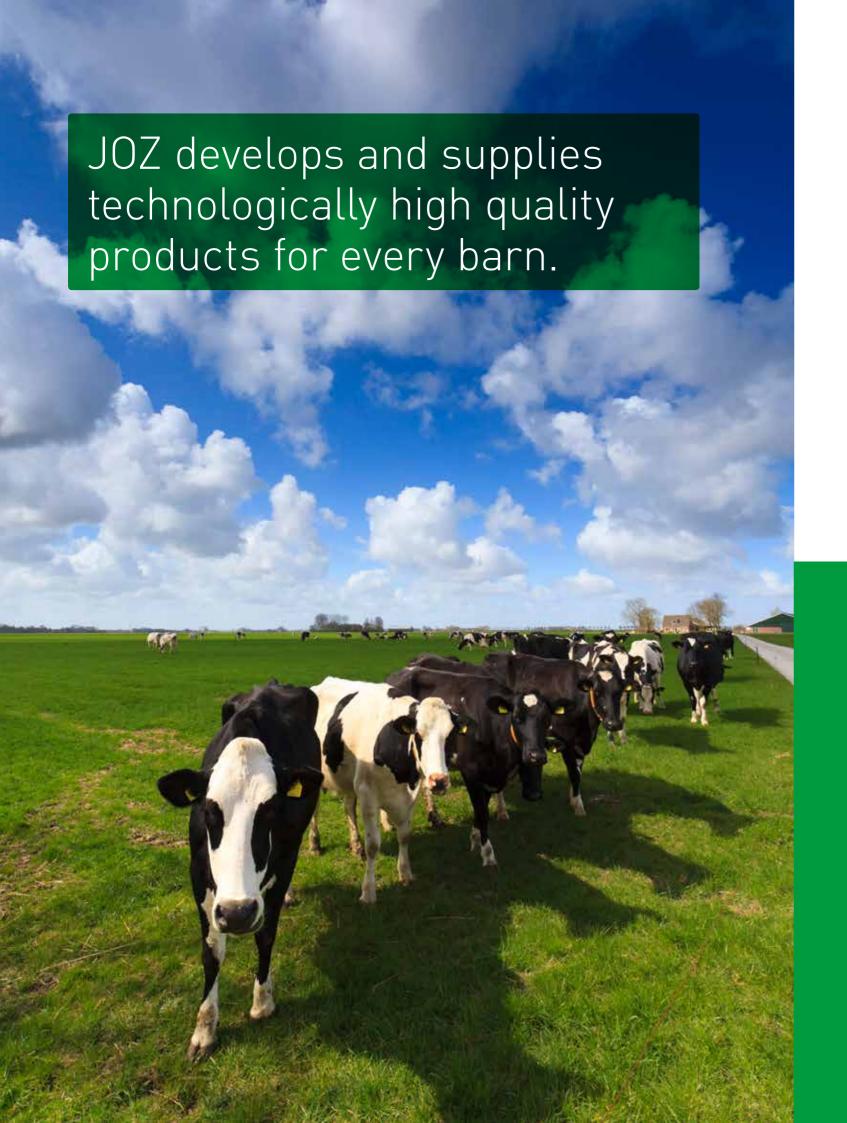
Note: Power control unit (0.55 / 0.75 / 1.5 kW) three phases 380-400 V + Earth. (no zero required)

Options	
02.0521001	Manure scraper combination control panel for 1x turning chain (1.5 - 2.2 kW) with electrical connection to control panel combi scrapers
02.0521010	Manure scraper combination control box for 1x turning chain (1.5 - 2.2 kW) + 1x swivelling conveyor, and electrical connection to control panel combi scrapers
03.073.030	Mounting bracket frequency regulator 0.55 kW / 0.75 kW
03.320.212	Intermediate box for coupling 2 switch boxes. This is applied when multiple switch boxes work together
03.320.220	Frost protection including temperature sensor
03.320.260	Power control unit: applied in geographic regions where the power supply can be bad.

Rope scraper installation

Rope scraper installations are controlled by a specific switch box. This switch box supplied with 230 V is simple to operate just like the electronic switch box and equipped with a convenient timer. The cow protection system provides a safe environment for your cattle. Contrary to a traditional scraper installation, the rope scraper installation only needs 1 switch box for 2 drive units. It too can optionally be equipped with frost protection.

07.010.100	Switch box rope scraper installation



Manure scrapers







Manure scrapers

JOZ HAS OPTIMALLY WORKING MANURE SCRAPERS FOR EVERY TYPE OF FLOOR AND FOR ALL ANIMALS, WHETHER IT IS FOR BARNS FOR DAIRY COWS, BEEF CATTLE, PIGS, DUCKS, CHICKENS OR FOR HORSES.

Cow comfort affects your results

Cow comfort is an important economic parameter in your business and can partly determine whether your business results are positive or negative. The walking conditions of the floor affect animal comfort. On a slippery floor no animal will move quickly and smoothly. A JOZ manure scraper will improve this situation significantly. As a result: comfortable and hygienic surroundings for you and your animals.

Different types of floors

Of course the type of floor also affects the walking conditions and so animal comfort. Under the influence of stricter environmental requirements and amended legislation, the choice for a certain type of floor is not always a free choice. In every case JOZ has a suitable manure removal system for every type of floor.

Parts and maintenance

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Those who have a JOZ manure removal system in use, don't need to be afraid of malfunctions. JOZ only uses the very best materials, which guarantee long-lasting, trouble-free operation.

Should a malfunction nevertheless occur, the JOZ service department will ensure that it is resolved as quickly as possible. Regular maintenance of the systems extends the life span considerably. Therefore, at JOZ you can conclude a service contract free of charge, which guarantees problem-free operation.









Combi scrapers



Combi scraper for nearly all type of floors

The JOZ Combi scraper is especially for barns with (semi-) closed floors. These may be flat floors with a discharge at fixed distances, but also sloped floors, where the manure floats to the middle or to the outside ends, scrapers which are suitable for slatted floor floors, and the combi scraper can be produced foldable so it is overdriveable with a vehicle.



The advantages of a Combi scraper:

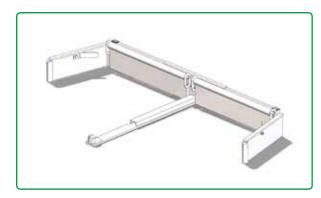
- Cleaner work so the claws remain dry and clean
- Compact parking position and it cleans the whole alley width immediately from the beginning
- The combi scraper is produced with heavy-duty high quality materials that guarantee reliability and a long life span.
- Tail strip and finish ensure perfect animal-friendliness

Counselling the construction process

On request, JOZ will supply drawings for the structural adjustments for all scraper installations. The many years of experience of JOZ, and attention to hygiene and animal well-being ensure optimal results during construction and many years after that.

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Combi scraper, single acting



- Minimal space required for parking the scraper.
- Scraper opens very fast at the beginning of the alley.
- Flat floor or UNP profile.
- Equal alley length or unequal alley length.
- Tail protector.
- Animal-friendly strip on the side wing.
- Optionally with rubber on main and side wings.

Application:

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- Closed concrete floor / element floors / slatted floor floors (with optional guiding feet for main wing).
- Rubber floor → no wearing crosses!
- Normal quantities of box litter, little or no straw.
- Chain, cable (rear only) or rope (this applies for all combi scrapers).



Article No. Description

03.125.???	Combi scraper flat floor
03.126.???	Combi scraper with pipe for unequal alley flat floor
03.127.???	Combi scraper with U profile (UNP 40) **
03.128.???	Combi scraper with U profile (UNP 40) ** unequal alley
03.125C???	Combi scraper standard version with rubber
03.126P???	Combi scraper with pipe for unequal alley
03.127U???	Combi scraper with U profile (UNP 40) with rubber **
03.128U???	Combi scraper with U profile (UNP 40) unequal alley with rubber **
03.295.???	Combi scraper flat floor for rubber floor
03.296.???	Combi scraper flat floor with pipe for rubber floor unequal alley
03.297.???	Combi scraper U profile 40 x 20mm for rubber floor ***
03.298.???	Combi scraper U profile 40 x 20mm for rubber floor unequal alley ***

Remarks:

- The last 3 positions of the article number represent the minimum alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- **For concrete groove (width x depth) 50 x 40mm.
- ***For (plastic) slide groove (width x depth) 50mm
- Minimal height of a scraper passage through a wall is 30cm.

Combi scraper, single acting & overdriveable



- Minimal space required for parking the scraper.
- Scraper opens immediately at the beginning of the alley.
- Flat floor or UNP profile 50 x 40mm.
- Equal alley length or unequal alley length.
- Tail protector.
- Animal-friendly strip on the side wing.
- Optionally with rubber on main and side wings.
- By means of a supplied hook the scraper can be folded without getting dirty hands.

Application:

- Manually foldable to pass over it with a vehicle.
- Closed concrete floor / element floors / slatted floor floors (with optional guiding feet for main wing).
- Rubber floor → no wearing crosses!
- Normal quantities of box litter, little or no straw.
- Chain, cable or rope.



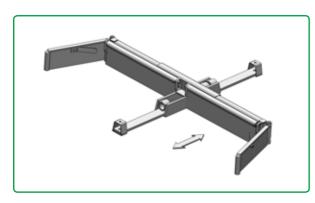
Article No. Description

03.142.???	Folding Combi scraper flat floor
03.143.???	Folding Combi scraper flat floor unqual alley
03.144.???	Folding Combi scraper U profile (UNP 40) **
03.145.???	Folding Combi scraper unequal alley, U profile (UNP 40) **

Remarks:

- The last 3 positions of the article number represent the minimum alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- **For concrete groove (width x depth) 50 x 40mm.
- Minimal height wall passage is 30cm.

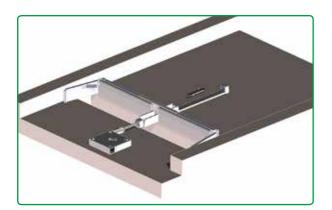
Combi scraper, single acting with sliding pulling bar



- Minimal space required for parking the scraper.
- When there's little room, this scraper still cleans the entire alley.
- Flat floor or UNP profile 50x 40 mm.
- Equal alleys or unequal alley length.
- Tail protector.
- Animal-friendly strip on the side wing.
- Optionally with rubber on the wings.

Application:

- When there's little space at the discharge.
- UNIQUE: manual deactivation of the scraper.
- Closed concrete floor / element floors / slatted floor floors (with optional guiding feet for main wing).
- Rubber floor → no wearing crosses!
- Normal quantities of box litter, little or no straw.
- Chain, cable or rope.



Article No. Description

03.190.???	Combi scraper sliding pulling bar standard version
03.191.???	Combi scraper sliding pulling bar with pipe for unequal alley
03.192.???	Combi scraper sliding pulling bar with U profile (UNP 40) **
03.193.???	Combi scraper sliding pulling bar with U profile (UNP 40) for unequal alley **

Remarks:

- The last 3 positions of the article number represent the minimum alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- **For concrete groove (width x depth) 50 x 40mm.
- Minimal height wall passage is 30cm.

Comb scraper, single acting





- Always UNP profile (50*40 or 50*30).
- Standard with rubber on the wings.
- Minimal space required for parking the scraper.
- Scrapes the full alley width in a short distance.
- Equal or unequal alley length.
- Tail protector.
- Animal-friendly strip on the side wing.

Application:

- Grooved floor.
- Normal quantities of box litter, straw in only one alley.
- Note distance 1st groove box wall regarding type of side wing.
- Chain, cable or rope.



Article No. Description

Zeus grooved floor	
03.321.???	Comb scraper for Zeus grooved floor with U profile ** type Agri Floor with 125 mm spacing
03.322.???	Comb scraper for Zeus grooved floor for unequal alley with U-profile. ** Type Agri Floor with 125 mm spacing

Swaans grooved floor	
03.323.???	Comb scraper for Swaans grooved floor with U profile ** Type G4/G5 floor with 175 mm spacing
03.324.???	Comb scraper for Swaans grooved floor unequal alley with U profile. Type G4/G5 floor with 175 mm spacing

Holcim grooved floor	
03.325.???	Comb scraper for Holcim grooved floor with U profile and 160 mm spacing
03.326.???	Comb scraper for Holcim grooved floor unequal allay with U profile and 160 mm spacing

Den Boer grooved floor	
03.329.???	Comb scraper for Den Boer grooved floor with U profile and 160 mm spacing
03.330.???	Comb scraper for Den Boer grooved floor unequal alley with U profile and 160 mm spacing

- Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- ** Concrete grooves only via drawing (groove spacing).
- Only in U profile design.
- Special side wings.
- 2 weeks longer delivery time than standard combi-scrapers.

Combi scraper, double acting with discharge in the end



- Minimal space required for parking the scraper.
- Scrapes the full alley width in short distance.
- Flat floor or UNP profile.
- Equal or unequal alley length.
- Animal-friendly strip on the side wing.
- Wearing crosses welded underneath frame.
- Optionally with rubber on the wings.

Application:

- Closed concrete floor, discharge at each end of the alley.
- $\bullet \ \ \mathsf{Rubber} \ \mathsf{floor} \to \mathsf{no} \ \mathsf{wearing} \ \mathsf{crosses!}$
- Normal quantities of box litter, little straw.
- Chain, cable or rope.

Article No. Description

03.156.???	Combi scraper double acting flat floor
03.157.???	Combi scraper double acting with pipe unequal alley flat floor
03.158.???	Combi scraper double acting U profile (UNP 40) **
03.159.???	Combi scraper double acting with pipe unequal alley U profile (UNP 40) **
03.152.???	Combi scraper double acting with rubber flat floor
03.153.???	Combi scraper double acting with pipe unequal alley flat floor
03.154.???	Combi scraper double acting with rubber, U profile (UNP 40) **
03.155.???	Combi scraper, double acting with rubber, pipe unequal alley, U profile (UNP 40) **

Remarks:

- Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- ** Concrete grooves only via drawing (groove spacing).
- Minimal height of a scraper passage through a wall is 30cm.
- Including side wing limiter.

Combi scraper, double acting with discharge in the middle



- Minimal space required for parking the scraper.
- Scrapes the full alley width in short distance.
- Only UNP profile.
- Equal or unequal alley length.
- Tail protector.
- Animal-friendly strip on the side wing.
- Wearing crosses welded underneath frame.
- Optionally with rubber on the wings.
- Discharge opening at least 50 cm. Note: open discharge!

Application:

- Closed concrete floor, discharge in the middle of the alley.
- Rubber floor.
- Normal amount of box litter, no straw.
- Chain, cable or rope.

Article No. Description

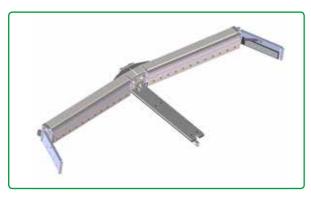
03.133.???	Combi scraper double acting U profile (UNP 40) **
03.134.???	Combi scraper double acting with pipe unequal alley U profile (UNP 40) **
03.133U???	Combi scraper double acting with rubber, U profile (UNP 40) **
03.134U???	Combi scraper, double acting with rubber, pipe unequal alley, U profile (UNP 40) **

Remarks:

- Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- ** Concrete grooves only via drawing (groove spacing).
- Minimal height of a scraper passage through a wall is 30cm.
- Including side wing limiter.
- Folding scraper deliverable on request.
- Note: not suitable for long straw.



Combi scraper for HCI W5 floor



- Minimal space required for parking the scraper.
- Tail protector.
- Animal friendly strip on the side wing.
- Side wing limiter.
- Rubber on main- and side wings.
- Hinged arms that follow the slope.
- Main frame that is slightly bent forward.
- Suitable for JOZ lifting hatch.

Application:

- HCI W5 element floor.
- Normal quantities of box litter, little or no straw.
- Chain, cable (rear only) or rope.

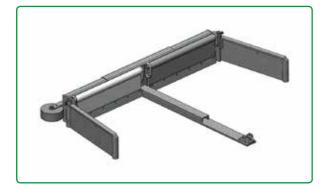
Article No. Description

03.331.???	Combi scraper for HCI W5 floor equal alley
03.332.???	Combi scraper for HCI W5 floor for unequal alley

Remarks:

- Last 3 positions of the article number represent the minimal alley width. Example: 03.331. 300 is a manure scraper for an alley width of 300 cm.
- Minimal height of a scraper passage through a wall is 30cm.

JOZ chicken scraper



- Extra heavy main wings.
- Manganese steel scrapers on the wings.
- Side wing limiter.
- Guided rollers next to the main frame.
- Very heavy frame.
- Chain secured to the pulling bar by means of a bolt.
- Flat floor only.

Application:

- Chickens, ducks, fur animals.
- Chain, cable or rope.

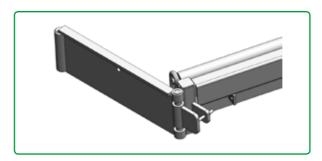
Article No. Description

03.225.???	Combi scraper flat floor for chicken stable
03.226.???	Combi scraper flat floor for chicken stable unequal alley

- Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- Minimal height of a scraper passage through a wall is 30cm.

Options combi scrapers

Adjustable side wing limiter combi scraper



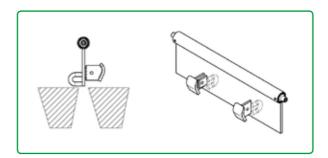
• The opening of the side wing can be limited by means of a bolt adjustment.

Application:

- When side guidance is not everywhere.
- For combi scraper flat floor.

Article number: 03.017.011

Guiding feet for main wing of combi scraper



- To prevent blocking of the combi scraper in slatted
- For combi scrapers without rubber.

Application:

• For discharge over slatted floors.

Article number: 03.025.016

Guiding feet for main wing of combi scraper with rubber



- To prevent blocking of the combi scraper in slatted
- For combi scrapers with rubber.

Application:

• For discharge on slatted floors.

Article number: 03.025.015

Extended side wings



- Suitable for single acting combi scrapers.
- Standard 750mm and 1000mm. Other lengths available on request.
- Available with rubber on the side wing.
- Article numbers on request.

Application:

- For flat floor (better guidance along walls).
- When used with straw in combination with a narrow frame.

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Herding fence on scraper



- Max. width 350 cm. If wider use 2 pieces.
- Including control in milking parlour.
- To be placed on the scraper, both slatted floor and combi scrapers.
- When the herding fence is not used, it can be hung on the wall by means of a bracket that is included.

Article number: 03.220.100

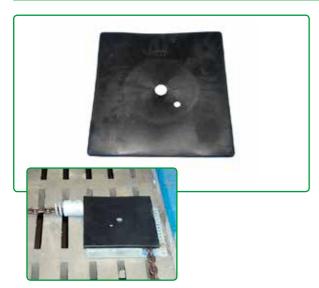
Connection of chain / cable underneath on pulling bar in U-profile



- For corner roller boxes recessed in concrete.
- Chain / cable does not come up from the recess in the floor.
- Front and / or rear pulling bar.
- Level -30mm, 40mm or -100 mm.
- In unequal alleys no connection in U-profile is possible.

Article number: 03.009.020

Rubber covering on corner roller box



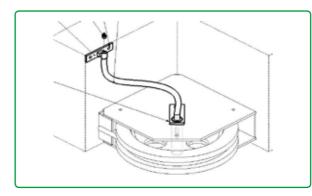
- Cow-friendly.
- Can be (dis)assembled using clips.
- Recess for grease nipple.

Application:

• When cows are allowed to walk over the corner roller box.

Article number: 03.006.030

Hose for lubrication of the corner roller box



- Hose length 50 cm.
- Also linkable extension hoses available of 50 cm.

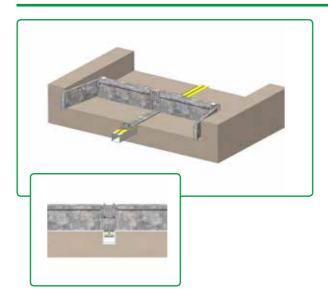
Application:

• If corner roller box is poorly accessible.

Article numbers:

02.053.000 Grease nipple hose + attachment (50cm) 0T.016.125 Extension set 50 cm extra.

JOZ liquid manure disposal profile



- Hard plastic wear strips.
- Removable.
- Available per metre, maximum strips of 6 metres.

Application:

- Provides primary separation of urine and solid manure.
- Dry claws.
- In combination with a slope toward the middle of the
- Scraper with cleaner spoon that cleans the liquid manure disposal profile.

Article number: 03.095.001

Delta scraper

IN CASE OF A BARN WITH FREESTALLS OR A SLOPING STABLE WITH LONG STRAW, THE DELTA SCRAPER IS THE MOST SUITABLE. THE GUIDING PROFILE IN THE MIDDLE OF THE FLOOR PROVIDES SCRAPER STABILITY.

The Delta scraper pulls the solid manure to the end of the manure alley, from where the manure is transported further to the manure pit with, for example, a turning chain system. Using the electronic switch box makes the phased disposal possible. Large amounts of straw, deposited on a scraper rod or turning chain system with little pass-through or insufficient removal rate, can cause blockage. By having the discharge occur in phases, this is avoided.

Delta scraper for alley of varying width

When the stable alley changes in width at a particular location, the Delta scraper is the solution. The scraper adapts effortlessly without any manure remaining behind.

Manure scraper for pig farming

In this system, the pigs stand on a slatted floor. The manure is trampled through the slots by the pigs and ends up on a second floor underneath the slatted floors. To limit the ammonia emission to a minimum, the manure is discharged directly to a manure tank with a manure scraper. From there, the manure can be transported to a storage facility. Closed floors with strawmanure are also becoming more prominent in pig farming; of course, JOZ has the solution for this too.

Application:

- Ideal for straw and possibly sand-bedded stables.
- Closed concrete floor.
- Chain or rope.
- Optional limitation of the arms with 10 or 13 mm chain.

Deltascraper in stable with lots of straw



The advantages of a Delta scraper:

- Very-cow friendly
- Low maintenance
- Standard reinforced with steel arms
- Overdriveable





Article No. Description

03.138.???	Delta scraper with U profile UNP 40
03.1384???	Delta scraper with U profile UNP 40 and rubber
03.139.???	Delta scraper with U profile UNP 40 unequal alley **
03.1394???	Delta scraper with U profile UNP 40 unequal alley and rubber **
03.136.050	Delta scraper single arm
03.138.050	Delta scraper single arm UNP

Remarks

- Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- ** Concrete grooves only via drawing (groove spacing).
- Minimal height of a scraper passage through a wall is 30cm.
- Space required for unfolding (1.5x alley width)
- Flat floor implementation available on request.
- For narrower manurealley widths (up to max. 100cm), it is possible to use a single-arm Delta scraper. Prices and versions on request.

Flex scraper

THE FLEX SCRAPER HAS THICK RUBBER ALONG ITS ENTIRE UNDERSIDE WHICH MAKES THIS SCRAPER VERY EASY TO MAINTAIN. THE NARROW MAIN FRAME ALLOWS THE SCRAPER TO OPEN QUICKLY AND IT IS ALSO OVERDRIVEABLE.

Application:

- Ideal for sand and straw stables.
- Closed concrete floor.
- Rubber floor, ask JOZ for the conditions.
- Chain or rope.

The advantages of a Flex scraper:

- Very cow-friendly as the cows can walk around the scraper on its return.
- Wings open faster than a Delta scraper
- Entire underside 40mm rubber
- Heavy frame on top
- Maintenance-friendly
- Flat floor and UNP profile
- Overdriveable
- Note: the folded width depends on the alley width





Passability by tractor

Alley width in cm	000	200	240	260	280	300	320	340	360	380
Minimum width in return run	942	992	1042	1092	1142	1192	1242	1292	1342	1392
in relation to passability (mm)										

Article No. Description

03.170.???	Flex scraper flat floor
03.171.???	Flex scraper with pipe unequal alley flat floor
03.172.???	Flex scraper U profile (UNP 40) **
03.173.???	Flex scraper U profile (UNP 40) with pipe unequal alley **

Remarks

- Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.
- Minimal height of a scraper passage through a wall is 30cm.
- ** For concrete groove (width x depth) 50 x 40mm



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Slatted floor scraper

THE SLATTED FLOOR SCRAPER IS MAINLY USED ON SLATTED FLOOR FLOORS AND ON SOME LOW-EMISSION FLOORS. THERE ARE SEVERAL SLATTED FLOOR SCRAPERS, SUCH AS WITH OR WITHOUT A RUBBER ROTOR, GALVANIZED AND / OR REINFORCED VERSIONS. THE SLATTED FLOOR SCRAPERS ARE SUITABLE FOR BOTH CABLE, ROPE AND CHAIN INSTALLATIONS.

No side quidance

An important advantage of the JOZ Slatted floor scraper is that no side guidance is needed. Special rotors on the sides of the scraper ensure that for example the standpipes of the feeding fence, water mains and tails can be circumvented without problems. Even when the manure alleys are of uneven lengths, a JOZ Slatted floor scraper can be used trouble-free with chain, cable or rope.

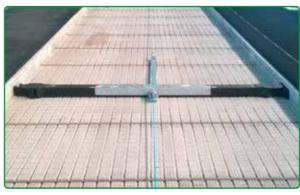
Automatically adjustable

The scraper is pulled over the floor with a chain, cable or rope, powered by a silent electric motor. The speed is 4 m/min. With the latest JOZ switch box the progress of the scraper can be controlled fully automati-

The advantages of a Slatted floor scraper:

- Animal-friendly finish
- More hygienic milking, allowing delivery of better milk quality
- Less manure on the slatted floors, so fewer claw problems and cleaner cubicles
- Less manure behind the boxes, so cows remain cleaner
- Less washing of the udders, so quicker milking
- Less sawdust or straw in the resting boxes.







Rubberized slatted floor scraper without rotor



- · Cow-friendly.
- Price-wise interesting.
- Rubber cable lug, steel also possible.
- Short delivery time.
- Equal or unequal alley length.
- 2 rubbers (front + rear) cleans very thoroughly.
- Optionally reinforced

Application:

- Slatted floor.
- Normal amount of cubicle litter.
- Note: use guidance in cross passage.
- Cable, rope or chain.

Rubberized slatted floor scraper with rotor

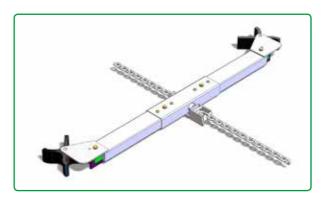


- Especially for wide alleys and a generous amount of box litter, this is available in a heavy-duty version.
- Rotors guarantee clean box walls and make guidance unnecessary in cross passages.
- Very cow-friendly finish.
- 2 rubber strips under the scraper guarantee a very thorough cleaning.
- Equal or unequal alley length.
- Optionally reinforced

Application:

- Slatted floor.
- Normal amount of cubicle litter.
- Cable, rope or chain.

Galvanized slatted floor scraper with rotor

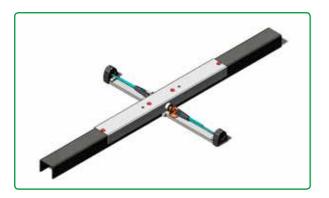


- Especially for wide alleys and a generous amount of box litter, this is as standard already reinforced.
- Rotors guarantee clean box walls and make guidance unnecessary in cross passages.
- Height of the scraper rubber is adjustable on both sides.
- Cow-friendly finish.
- Equal or unequal alley length

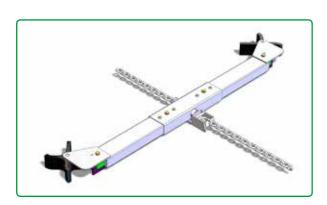
Application:

- Slatted floor floor
- Semi-slatted floor floor.
- Wide alleys.
- A lot of cubicle litter.
- Cable, rope or chain.

Article numbers







Article No. Description

Rubberized	Rubberized slatted floor scraper without rotor		
03.360.???	Rubberized slatted floor scraper without rotor standard Chain		
03.361.???	Rubberized slatted floor scraper without rotor unequal alley Chain		
03.362.???	Rubberized slatted floor scraper without rotor standard Cable / Rope		
03.363.???	Rubberized slatted floor scraper without rotor unequal alley Cable / Rope		

Remarks:

• Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.

Rubberized Slatted floor scraper with rotor		
03.260.???	Slatted floor scraper with rotor standard Chain	
03.261.???	Slatted floor scraper with rotor unequal alley Chain	
03.262.???	Slatted floor scraper with rotor standard Cable / Rope	
03.263.???	Slatted floor scraper with rotor unequal alley Chain	

Remarks:

• Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.

Slatted floor	Slatted floor scraper galvanized with rotor		
03.160.???	Slatted floor scraper with rotor standard Chain		
03.161.???	Slatted floor scraper with rotor unequal alley Chain		
03.162.???	Slatted floor scraper with rotor standard Cable		
03.163.???	Slatted floor scraper with rotor unequal alley Cable		

Remarks

• Last 3 positions of the article number represent the minimal alley width. Example: 03.125.300 is a manure scraper for an alley width of min. 301 cm and max. 320 cm.

Discharge systems







Discharge systems

TO REMOVE THE MANURE FROM THE FLOOR, SEVERAL DISCHARGE POSSIBILITIES EXIST. IN SLATTED FLOORS, MANURE IS PUSHED THROUGH THE SLOTS BY THE SCRAPER. IN CONCRETE FLOORS WE SEE POSSIBILITIES FOR AN OPEN DISCHARGE, GUIDED BY DISCHARGE IRONS, DIAGONAL STEEL GRATES AND BY THE JOZ LIFTING HATCHES.

Letterbox discharge

The letterbox discharge is the solution for a safe discharge of manure to the manure cellar. JOZ has a suitable solution for this.



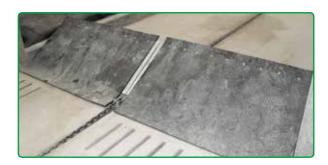
JOZ lifting hatches

The lifting hatch has been developed to safely cover manure discharging for humans, animals and traffic. The lifting hatches are automatically opened and closed by the manure scraper and controlled by the unique settings with the JOZ control panel technology. Lifting hatches are produced customer-specific, and can be covered with animal-friendly rubber.

The advantages of lifting hatches:

- Walkable and overdriveable discharge
- No manure residues
- Very animal-friendly in combination with rubber





Article No. Description

03.650.250	JOZ lifting hatch 650 up to alley width 250 cm
03.650.300	JOZ lifting hatch 650 up to alley width 300 cm
03.650.350	JOZ lifting hatch 650 up to alley width 350 cm
03.650.400	JOZ lifting hatch 650 up to alley width 400 cm
03.1000250	JOZ lifting hatch 1000 up to alley width 250 cm
03.1000300	JOZ lifting hatch 1000 up to alley width 300 cm
03.1000350	JOZ lifting hatch 1000 up to alley width 350 cm
03.1000400	JOZ lifting hatch 1000 up to alley width 400 cm

If walkable rubber is desired, an 'M' should be added to the article number. Example: 03.650.250M

Grid discharge

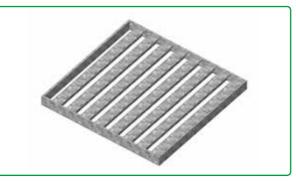
The steel grids discharge are ideal for the disposal of thin manure. The grids are suitable for discharge both at the end and in the middle. The maximum length is 120cm. The grid discharge is produced customer-specific. Manure that is too thick will not pass through the grids.

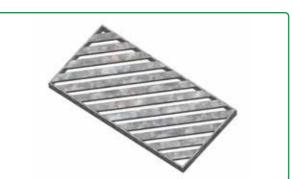
The advantages of a grid discharge:

- Walkable discharge for both animal, humans and work traffic
- Available straight or diagonal
- More manure pass-through than a concrete grid floor
- Suitable for primary separation of liquid and solid fractions



JOZ steel grids





- Produced custom made customer-specific.
- Maximum length is 120 cm, larger dimensions on request.
- Ideal for both end and middle discharge.

Article No.	Description

03.100.V90	Grid with 3 cm split and T-steel straight
03.100.V45	Grid, diagonal T-steel with 3 cm split



Turning chain system

BECAUSE OF ITS PROVEN SERVICE, THE TURNING CHAIN SYSTEM HAS BEEN A WELL-KNOWN CONCEPT FOR MORE THAN 70 YEARS AND IT IS STILL USED TODAY.

The turning chain system

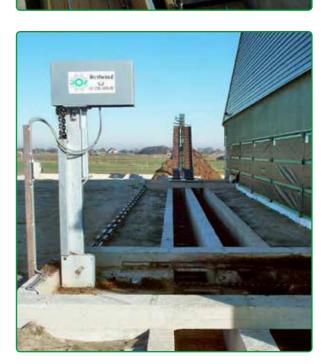
JOZ has been supplying the turning chain system for years, and today it is still widely used. That a large portion of these systems is used to replace existing systems shows that this JOZ stable cleaning system has proven its value. Precisely because of its simplicity and reliability, this system is still in great demand.

The turning chain stable cleaning system is also used in combination with the JOZ manure scrapers. The solid manure is transported with the manure scraper from the cubicles or via the sloping stable to the end of the manure alley and discharged on the turning chain system. The turning chain system carries the manure quickly and reliably down to the manure storage.

The advantages of the turning chain system:

- Solid construction and therefore reliable
- Attractive in price
- Long life span by use of high-quality materials
- Variable tractive force safety





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Turning chain system



02.016.000 Corner roller



Passagechain



Article No. Description

Al ticle No.	Description
0H.16R.064	Chain 16 mm, with swivels c.t.c. 64 cm, clockwise running, per metre
0H.16L.064	Idem, but counter-clockwise running
0H.16R.048	Chain 16 mm, with swivels c.t.c. 48 cm, clockwise running, per metre
0H.16L.048	Idem, but counter-clockwise running
02.099.R00	Parts set comprising: head anchor, pressure roller + holder + grease nipple bolt + pressure lug + strawboard, clockwise running
02.017.000	Flat anchorplate, complete
02.099.L00	Idem, but counter-clockwise running
02.022.000	Endurance box 45° complete with roller 280
02.016.000	Corner roller ø 330 mm, complete with hot dip galvanised housing
02.012.000	Return elbow R = 85 cm
02.036.000	Manure-processing elbow R = 125 cm
02.038L1.5	Drive unit - 1.5 kW. Left (up to 120 m. chain)
02.038R1.5	Drive unit - 1.5 kW. Right (up to 120 m. chain)
02.069L2.2	Drive unit - 2,2 kW, Left model (120 mtr max. 150 mtr. chain)
02.069R2.2	Drive unit - 2,2 kW, Right model (120 mtr max. 150 mtr. chain)
02.138L300	Drive unit - 2.2 kW, Left model, extra heavy for \rightarrow 200m chain (max. length situation dependant and on request)
02.138R300	Drive unit - 2.2 kW, Left model, extra heavy for \rightarrow 200m chain (max. length situation dependant and on request)
02.018.001	Liquid manure grid in passage floor (standard 61x47x3 cm)
02.019.000	End roller ø 280 mm, complete with steel housing, including concrete anchor

02.029.05R	Fixed conveyor 5 metre long, for clockwise running chain, electric cable from motor bracket 1,5 mtr from bottom, incl. waterproof operating switch and support brace
02.029.06R	As above, but 6 m long
02.029.07R	As above, but 7 m long
02.029.08R	As above, but 8 m long
02.029.09R	As above, but 9 m long
02.029.10R	As above, but 10 m long
02.029.11R	As above, but 11 m long
02.029.12R	As above, but 12 m long

Turning chain system



02.900.000 Automatic greasing system for turning chain incl. oil 5 litres

Article No. Description

02.029.05L	Fixed conveyor 5 m long, for counter-clockwise running chain with electric cable from motor bracket 1.5 m from bottom, including waterproof operating switch and support brace
02.029.06L	As above, but 6 m long
02.029.07L	As above, but 7 m long
02.029.08L	As above, but 8 m long
02.029.09L	As above, but 9 m long
02.029.10L	As above, but 10 m long
02.029.11L	As above, but 11 m long
02.029.12L	As above, but 12 m long
02.029.000	Surcharge trap door in one of the above mentioned conveyors
02.900.000	Automatic greasing system for turning chain incl. oil 5 litres
80.BVMK005	Bio degradable chain oil, 5 litres

Pivoting conveyor





Article No. Description

O2.Z29.06R Pivoting conveyor complete with full oil bath drive unit and an indestructible heavy chain ø 16 mm link thickness (Corten-A-Steel) swivels c.t.c. 48 cm and electric cable from motor up to 1.5 m of the bottom side of the feed trough + special waterproof operating switch with lock. Length 6 meters, clockwise running O2.Z29.08R As above, length 8 metre, clockwise running O2.Z29.10R As above, length 10 metre, clockwise running O2.Z29.12R As above, length 12 metre, clockwise running O2.Z29.06L As above, length 6 metre, counter-clockwise running O2.Z29.08L As above, length 8 metre, counter-clockwise running O2.Z29.10L As above, length 10 metre, counter-clockwise running O2.Z29.12L As above, length 12 metre, counter-clockwise running O2.O29.02L Fixed conveyor 1.6 mtr long, counter-clockwise running O2.029.02R Fixed conveyor 1.6 mtr long, clockwise running O2.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper O2.0521010 Control panel for 1x turning chain system (1,5 - 2,2 kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper OD.100.010 Push-button switch for pivoting elevator		
02.Z29.10R As above, length 10 metre, clockwise running 02.Z29.12R As above, length 12 metre, clockwise running 02.Z29.06L As above, length 6 metre, counter-clockwise running 02.Z29.08L As above, length 8 metre, counter-clockwise running 02.Z29.10L As above, length 10 metre, counter-clockwise running 02.Z29.12L As above, length 12 metre, counter-clockwise running 02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.06R	an indestructible heavy chain ø 16 mm link thickness (Corten-A-Steel) swivels c.t.c. 48 cm and electric cable from motor up to 1.5 m of the bottom side of the feed trough + special waterproof operating switch with lock.
02.Z29.12R As above, length 12 metre, clockwise running 02.Z29.06L As above, length 6 metre, counter-clockwise running 02.Z29.08L As above, length 8 metre, counter-clockwise running 02.Z29.10L As above, length 10 metre, counter-clockwise running 02.Z29.12L As above, length 12 metre, counter-clockwise running 02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.08R	As above, length 8 metre, clockwise running
02.Z29.06L As above, length 6 metre, counter-clockwise running 02.Z29.08L As above, length 8 metre, counter-clockwise running 02.Z29.10L As above, length 10 metre, counter-clockwise running 02.Z29.12L As above, length 12 metre, counter-clockwise running 02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.10R	As above, length 10 metre, clockwise running
02.Z29.08L As above, length 8 metre, counter-clockwise running 02.Z29.10L As above, length 10 metre, counter-clockwise running 02.Z29.12L As above, length 12 metre, counter-clockwise running 02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.12R	As above, length 12 metre, clockwise running
02.Z29.10L As above, length 10 metre, counter-clockwise running 02.Z29.12L As above, length 12 metre, counter-clockwise running 02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.06L	As above, length 6 metre, counter-clockwise running
02.729.12L As above, length 12 metre, counter-clockwise running 02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.08L	As above, length 8 metre, counter-clockwise running
02.029.02L Fixed conveyor 1.6 mtr long, counter-clockwise running 02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.10L	As above, length 10 metre, counter-clockwise running
02.029.02R Fixed conveyor 1.6 mtr long, clockwise running 02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.Z29.12L	As above, length 12 metre, counter-clockwise running
02.0521000 Control panel for 1x turning chain system (1,5 - 2,2 kW) 02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.029.02L	Fixed conveyor 1.6 mtr long, counter-clockwise running
02.0521001 Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.029.02R	Fixed conveyor 1.6 mtr long, clockwise running
an elektronic coupling to controller of a combi-scraper 02.0521010 Control panel for 1x turning chain system (1,5 - 2,2kW), swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.0521000	Control panel for 1x turning chain system (1,5 - 2,2 kW)
swivelling pivoting chain elevator and an electronic coupling to controller of a combi-scraper	02.0521001	Control panel for 1x turning chain system (1,5 - 2,2 kW) and an elektronic coupling to controller of a combi-scraper
0D.100.010 Push-button switch for pivoting elevator	02.0521010	swivelling pivoting chain elevator and an electronic
	0D.100.010	Push-button switch for pivoting elevator

A RECIPROCATING MOTION THROUGH THE MANURE PASSAGE. THIS MOVEMENT CREATES A MANURE TRANSPORTATION TO THE EXIT / DROPPIT OF THE MANURE PASSAGE. TO CREATE THIS LINIEAR MOVEMENT JOZ CAN OFFER YOU TWO SYSTEMS: THE JOZ MECHANICAL SCRAPER ROD, A MECHANICAL SCRAPER WITH AN ELEKTRIC ENGINE AND CHAIN DRIVEN SCRAPER SYSTEM AND THE JOZ HYDRAULIC SCRAPER ROD: A MECHANICAL SCRAPER WITH A HYDRAULIC CYLINDER WICH DRIVES THE SCRAPER SYSTEM. MAXIMUM LENGTH OF THE SCRAPER SYSTEM IS 35 METERS.

The scraper rod system is a simple, versatile system that has amply proved its value in use. The scraper rod comprises a heavy-duty steel beam, which is fitted with hinged swivels. The beam's back and forth movement transports the dung outside, where a pivoting elevator or compression-chamber pump conveys it to the dung heap. The conveyor has an independent drive unit and is available in lengths from 6 to 15 metres. The compression-chamber pump/dung press is suitable for situations where the dung heap is a considerable distance away.

Solid construction

The beam runs over guide bars that are cast in place in the dung channel. The hinges have special plastic bearings. The swivels are easy to remove. A strip is welded to the top of the individual swivels to prevent them damaging the cows' legs and hooves.

Hydraulic or mechanical drive unit

The scraper rod system has a heavy-duty drive unit. The unit can be either mechanically driven (full oil bath with gear wheel transmission) or hydraulically driven. In either case, a control panel regulates the stroke of the rod and can be supplied with a timer, if required. The scraper rod system can also be combined with a compression-chamber pump system.

The advantages of a scraper rod:

- Solid construction
- Reliable
- Attractive in price
- Enhanced durability by using high quality materials
- Fully secured
- Highly suitable for discharge at the side of the stable



Counterclockwise



Scraper rod

Technical data

Mechanical drive unit	0,75 KW; 220 V / 380 V
Hydraulic drive unit	3-11 KW, 4 cc of 2x 4 cc
Drive unit	full oil bath, gear wheel transmission, output 5.5 rpm
Scraper travel speed	4 m/min (13 ft/minute)
Control panel	380 V, maximum current protection
Dung channel width	depending on the situation - standard minimum width 0.45 m, standard maximum width 0.70 m (wider available on request)
Rod stroke	1,80 m
Swivel distance	0.9 m for muck with straw; 0.6 m for manure

Article numbers

Article No. Description

04.136.90R	Scraper rod, complete, with scrapers (swivels c.t.c. 90 cm), per 540 cm length, clockwise system
04.036190R	Scraper rod, complete with scraper (swivel c.t.c 90 cm), clockwise system
04.136.90L	Scraper rod, complete, with scrapers (swivels c.t.c. 90 cm), per 540 cm length, counter-clockwise system
04.036190L	Scraper rod, complete with scraper (swivel c.t.c. 90 cm), counterclockwise system
04.138.60R	Scraper rod, complete, with scrapers (swivels c.t.c. 60 cm), per 540 cm length, clockwise system
04.038160R	Scraper rod, complete with scraper (swivel c.t.c. 60 cm), clockwise system
04.138.60L	Scraper rod, complete, with scrapers (swivels c.t.c. 60 cm), per 540 cm length, counterclockwise system
04.038160L	Scraper rod, complete with scraper (swivel per 60 cm), counterclockwise system
04.100.000	Canal corner 90gr. (not for scraper rod with scraper with swivel both sides.)
04.136.200	Scraper rod reinforcement. (360 cm or part there of)
04.138.200	Scraper rod reinforcement (360 cm or part there of)
03.320.210	Universal electronic control panel, incl. timer, for 1 system
03.320.211	Universal electronic control panel, incl. timer, for 2 systems
04.030.000	Manure discharge grid
04.047.000	Complete drive unit, type "Buffel"
86.7800274	Hydraulic generator, 3 kW, suitable for max. 1 cylinder. Generator capacity 40 liters (oil not included)
86.7800272	Hydraulic generator, 5.5 kW, suitable for max. 2 cylinders. Generator capacity 80 liters (oil not included)
03.005.000	Protection cover for generator
80.BVHY000	Hydraulic oil per litre. Per 20 liter
04.032.000	Hydraulic cylinder incl. fixation materials. (counterclockwise system)
04.032.002	Hydraulic cylinder incl. fixation materials. (clockwise system)
04.021.001	Cover for hydraulic cylinder. (only when there is cow traffic). Optional
0D.400.210	7,5 kW Manual star-delta switch
	For motorprotection other types on request
09.078.001	Automatic star-delta switch in combination wih Electronic control unit / timer
	Only on project base

55

Our solutions and services for the stable maintain a natural environment for the animal.



Royal Mat





A COMFORTABLE ENVIRONMENT WITH ROYAL MAT OF JOZ

COWS ON THE ROYAL MAT RUBBER FLOOR MATS FEEL AND BEHAVE JUST AS IF THEY WERE IN THE MEADOW. THESE FL OOR MATS FROM JOZ ENSURE THAT THE COWS ALSO MOVE AROUND MORE AND BETTER IN THE COW HOUSING. THAT LEADS TO LESS FOOT PROBLEMS. DUE TO THE INCREASED ACTIVITY MOREOVER, THE FEED INTAKE IS BETTER. THIS OPTIMAL COMFORT FOR THE COWS TRANSLATES DIRECTLY INTO HIGHER MILK PRODUCTION.

Practical in use

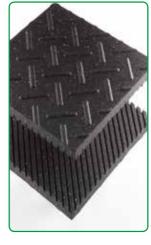
JOZ supplies the Royal Mat floor mats with a slight profile on the upper side and a corrugated underside. The floor mats are easy to keep clean with the JOZ manure scrapers systems and they are firmly attached to the underlying surface. The manufacturer of Royal Mat products makes them from recycled rubber. This rubber is more stable than new rubber and is consequently minimally susceptible to shrinkage or stretching.

Easy to lay

Laying the mats is easy. Fixing is by means of fixing adhesive and plug nails. The most prevalent mats for cow housings are the standard rectangular mats. However, interlocking mats are available as an option.





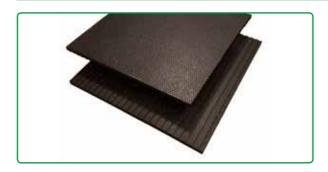


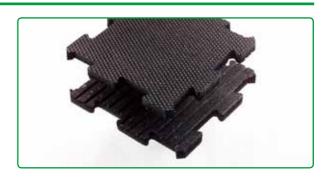
The advantages of Royal Mat:

- more comfort in free stalls
- cows move around more and better
- less sliding
- less foot problems
- better feed intake
- higher milk production
- excellent in combination with the JOZ manure scrapers
- easy to lay
- 5 year warranty*

Royal Mat

Royal Mat for walking





Description	Article no.	Length * [mm]	Width * [mm]	Thicknes * [mm]	Area * [m2]
Rubber mat for walking alleys with puzzlemat jig saw connection "Beehive"	19.134.551	1750	1170	19	2.04
Straight-cutted rubber mat for walking alleys "Beehive"	19.134.601	1850	1230	19	2.23

^{*}Dimensions may vary

Requirements

Article No. Description

19.000.001	Silicone glue
19.000.006	Anchor nails 60x 60 mm for strips
19.000.013	Anchor nails 60 x 70 mm for mats
19.000.004	Wear resistant plastic strip (50x20) to create u profile
	for scrapers installation (strip is 3 meter)

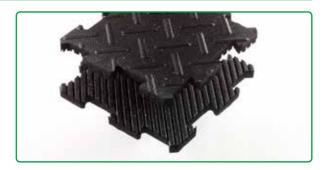
Determine requirements (for 100m2)			
Silicone glue	25	pieces	
Anchor nails 6 x 70 mm	672	pieces	
Wear resistant plastic strip (50X20) to create u profile	passage- length x 2	meter	
Anchor nails 6 x 60mm	7	per wear strip	

Discount gradation
Special price for a full loaded con-
tainer (ca. 1285m2)

^{*}Depending on installation and use according JOZ directives as described in our manuals.

Royal Mat for beds





Description	Article no.	Length * [mm]	Width * [mm]	Thicknes * [mm]	Area * [m2]
Straight-cutted rubber mat for beds "Ergo-bridge"	19.134.702	1830	1220	19	2.23
Rubber mat for beds with puzzlemat jig saw connection	19.134.502	1750	1170	19	2.04

^{*}Dimensions may vary

Requirements

Article No. Description

19.0	000.001	Silicone glue
19.0	000.006	Anchor nails 60x 60 mm for strips
19.0	000.013	Anchor nails 60 x 70 mm for mats
19.0	000.004	Wear resistant plastic strip (50x20) to create u profile
		for scrapers installation (strip is 3 meter)

Determine requirements (for 100m2)			
Silicone glue (for straight mats)	25	stuks	
Anchor nails 60 mm	675	stuks (15 per mat)	
Plastic wearing strips	Dung alley length x 2	meter	

Discount gradation
Special price for a full loaded con-
tainer (ca. 1285m2)

Special projects







WE FEEL VERY STRONGLY ABOUT INNOVATION. OUR SOLUTIONS ARE ALWAYS SPECIFIC AND REQUIRE SPECIAL ATTENTION WHERE NECESSARY. THROUGH OUR IN-HOUSE KNOWLEDGE, EXPERIENCE AND SPECIALISATION, JOZ HAS A SOLUTION FOR EVERY BARN. BECAUSE OF THE HIGH DEMANDS IN TERMS OF ANIMAL WELFARE, EMISSION STANDARDS AND LABOUR SAVINGS, THE NETHERLANDS ARE A PIONEER IN THE AGRICULTURAL SECTOR. JOZ UNBURDENS THE DAIRY FARMER, EVEN WHEN THE STABLE HAS SPECIFIC REQUIREMENTS. THIS CAN BE SEEN IN THE PROJECTS BELOW.

JOZ is involved as a specialist in new developments in both existing and new construction projects. The Kwatrijn project is a good example of this. Here different disciplines have been brought together to create joint solutions / improvements. Even the government supports this special project to further develop the stable of the future.

The advantages of having your own Research & Development + Engineering department:

- In-house knowledge
- Close to the market
- Focussed on solutions
- Development of new products







At JOZ, we love challenges. Do you have a specific request? Do not hesitate to contact your JOZ dealer at www.joz.nl/en.







For all our dealers, products and services go to: www.joz.nl



Following us on Facebook already? Like us at www.facebook.com/ jozhomeofthecleanstable



For videos of our products, check out our YouTube channel: JOZ Home of the clean stable



Manure robots
Manure scrapers
Feed pushers
Royal Mat

Mission:

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.

Vision:

JOZ develops and supplies high quality technological products for every stable. With our mobile stable robots and mechanical products we want to belong to the Top 3 of the leading market suppliers. We know the stable perfectly. We are constantly innovating. Our smart solutions can be applied worldwide and because they are capable of communicating with everything and everyone the care is taken over from the user.

JOZ b.v.

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Home of the clean stable

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