Spend your time wisely

02

By ensuring feed accessibility for your cows through automated feed pushing, you have more time to focus on what matters most to you.

Healthy milk production

for you and your cows.

Increasing the feed pushing frequency has multiple benefits

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It works in every barn

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The Lely Juno pushes feed in all types of barns and has the versatility to move from one barn to another.

Lely Juno

Automatic feed pushing

Increasing feed intake has never been easier.



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Smart feeding works



Increasing the feed pushing frequency has multiple benefits for you and your cows

The benefits of automatic feed pushing

24/7 availability of ration

By pushing feed regularly, every cow is able to eat the ration she needs for optimal rumen health. Feeding and feed pushing stimulates cows to walk and encourages them to the feed fence and fill up the rumen again.

Optimal feed intake

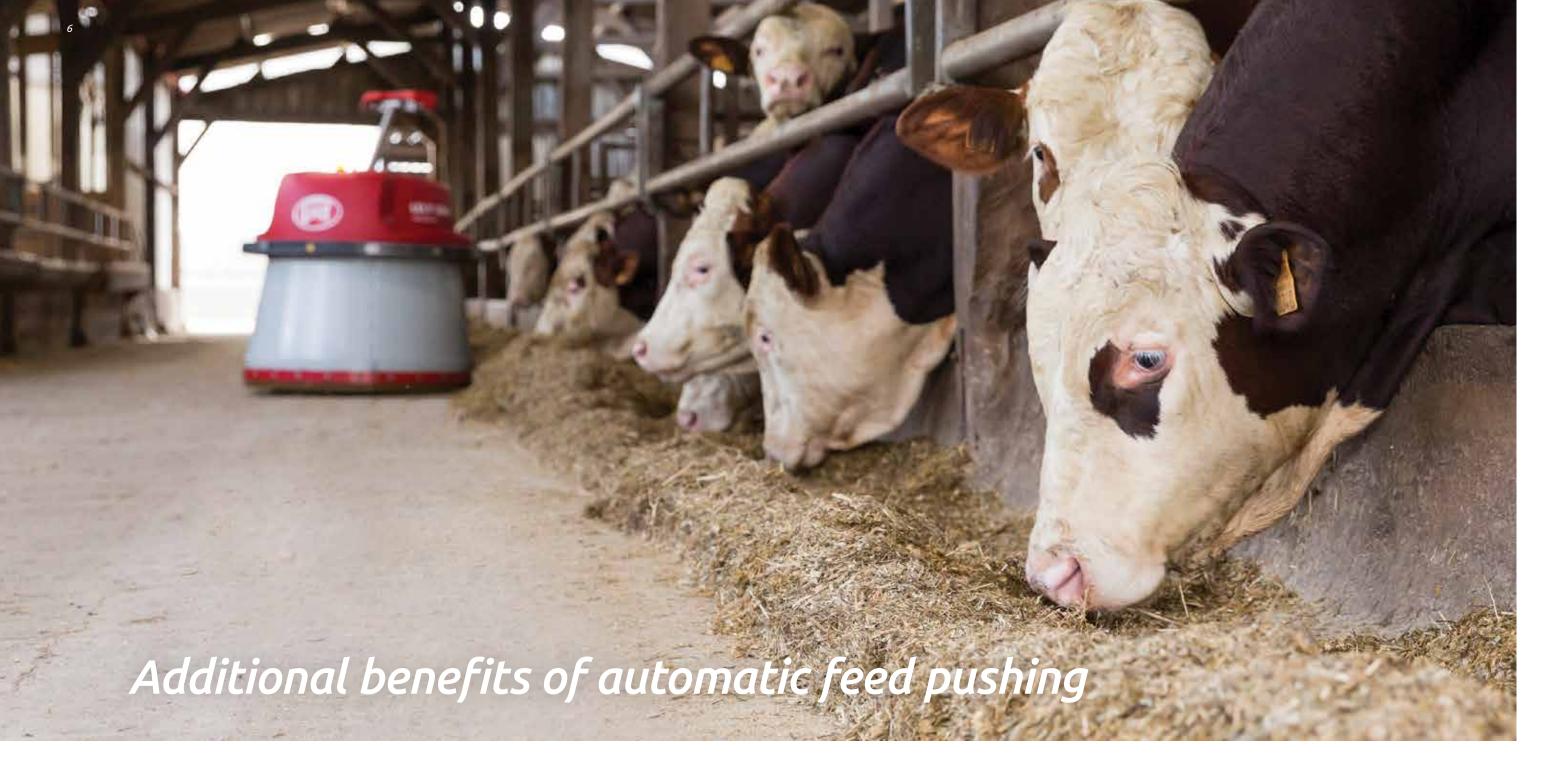
Feeding is the best motivator for cows to come to the feed fence. When you feed with a feed wagon, feeding two to three times a day achieves the optimal balance between the amount of work and feed intake. This means that you have to push the feed six to eight times per day.

Labor-saving

Quite often, labor is a limiting factor in keeping the feed within reach of the cows. Based on three, 10-minute feed pushing rounds each day, an automatic feed pusher can save you up to 180 hours a year. This is more than a month's wages of a full-time employee per year. If you switch to six feed pushes per day, this amount doubles!

More flexibility

By automating feed pushing, you give yourself the flexibility needed for other important management activities on the farm. Herd health, forage harvesting and feeding calves can all be done knowing that the feed pushing is still being handled.



More frequent use of the milking robot

When combined with a milking robot, the Lely Juno has proven that it increases the visiting rate of the robot. Increased visits result in higher milk production, especially for lower-ranking cows. In addition, the milking robot is used more efficiently and less cows need to be collected for milking.

Sorting and rest feed

Pushing the feed more frequently stimulates the feed intake and reduces the amount of rest feed. The cows have less opportunity for sorting, making the eaten ration almost equal to the fed ration. Aim for three percent to five percent feed refusals. If feed refusals are above or below that amount, rations should be evaluated and may need adjustment.

Improved animal health

50 percent to 70 percent of the dairy cows' energy requirements come from volatile fatty acids, which are residuals from the fermentation of carbohydrates. The rumen microbes that ferment the crude fiber are ineffective at a low pH. Many small meals result in a higher and more stable pH, which enables cows to make better use of the feed they eat. Frequent feed pushing encourages the cows to eat more frequently and helps them get the most out of the feed.

Less stress

Cows eat, lie down and walk in groups.
Unnecessary competition at the feed fence occurs when feed is limited or difficult to access. The cows lower in rank will wait until the main group is resting. They eat less often and can have lower dry matter intake, increasing the risk of metabolic issues. If there is always sufficient and palatable feed available, you limit the chances of metabolic issues occurring.





Low energy consumption

The charging station, which can be mounted on the wall or floor in the feeding alley, serves as the point of departure and arrival for each feeding route. The Juno charges quickly and easily, and the extremely energy-efficient motor requires only 102 kWh per year. This saves a lot of fuel costs when compared to a tractor and has a positive effect on CO₂ emissions in the barn.

How it works

The Lely Juno moves along the feeding alley automatically, following the feed fence.

The ground driven, rotating surface on the lower part of the machine pushes the roughage toward the feed fence. A heavy steel block forms the 'body' of the feed pusher, ensuring that the machine has sufficient mass to push the fodder.



Lely Juno

Increasing feed intake has never been easier

Pushing feed yourself is now a thing of the past. Using the Lely Juno, you can increase feed pushing frequency while reducing your labor and energy costs.

Designed for any type of barn

Since the Lely Juno is a stand-alone machine, barn modifications are seldom required. The Lely Juno handles all types of feed fencing with ease, making it suitable for any type of barn - even barns with a small feeding alley.

Safety

The Lely Juno operates in the feeding alley, which is an easily accessible part of the barn. Therefore, safety is of paramount importance, which is why the feed pusher features a collision detector. This ensures that the feed pusher stops as soon as it hits an obstacle.





Dynamic pushing

Feed is rarely divided evenly over the entire feeding alley. Thanks to smart software, this does not matter. For each route, you can set the minimum distance to the feed fence, the pushing frequency and the feed type per group.

Based on this data, the software determines the right resistance

level and pushing force. The Juno measures the amount of feed at a certain spot and automatically adjusts for the optimal distance to the feed fence. This ensures that the Juno pushes the feed correctly over the entire length of the alley, no matter the situation.



Lely Control Plus

The Lely Juno can be controlled with the 'Lely Control Plus' app via a Bluetooth connection. This means you can operate the Lely Juno from one or more smartphones. Creating and adjusting a route can be done easily with pre-set actions. You can even steer your Juno using only your finger on your screen. Within one route per feeding alley you can enter multiple feeding routes and distances from the feed fence.

Lely Control Plus is available in the Google Play marketplace and Apple App Store. It can also control the Discovery manure scraper and Vector feeding system.



integrated by your local Lely Center during the installation of the Lely Juno.

Skirt lifter

Thanks to the skirt lifter, the Juno can pass over small obstacles such as floor railings. It also provides sufficient ground clearance when driving on slopes with an incline up to 15 percent. The ground clearance also keeps the skirt free from mud and manure so that it does not pollute the feed.

Left and right pushing of roughage

Due to the bi-directional feed pushing feature, the Juno capacity is greatly increased and it is able is to follow walls on both the left and right hand side of the alley or feed passage.

Barn door control

In combination with the barn door control, the Juno is able to open and close electric doors automatically when driving from one barn to another.

LED light

An integrated LED light makes the Juno more visible in the dark. This increases yard safety when driving from one barn to another.

Electric bumper protection

The electric bumper protection is a metal strip with an electric pulse that is mounted on the bumper. The pulse does not harm cows or humans but prevents cows from stopping the machine by touching the bumper.

Diameter (cm)	110
Height (cm)	110 - 177
Weight (kg)	620
Height (cm) of the push blade	63 - 67
Drive	Electric motor
Speed	12 (m/min)
Batteries	12V/55Ah
Determination of direction of movement	Gyroscope and ultrasound
Maximum slope	15% (8.5°)
Minimum width feed alley	1.25m + width of fee
Driving time without charging	1 hour
Max driving distance	1 km
Allowed working temp	-20°C to +50°C
Dynamic pushing	Standard
Left and right pushing	Optional
Electric bumper protection	Optional
LED light	Optional
Door control	Optional
Skirt lifting	Optional
Skirt tilting	Optional

Technical specifications Juno



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