



PREMIUM FEEDING TECHNOLOGY

PROVIDING **FEED MIXERS** AND
AUTOMATIC FEEDING SYSTEMS FOR
DAIRY FARMERS

 **TRIOLIET**
FEEDING TECHNOLOGY



Trioliet is a manufacturer of premium feeding technology. Every day, millions of cows all over the world are fed with our machines. Over more than 70 years, our family business has grown into a global player. We view it as our duty to provide optimal, sustainable solutions for the mechanised and automated feeding of cattle on professional dairy farms all over the world.

Trioliet Green-Label

Trioliet regards sustainability as of the highest importance. We want to contribute to a better environment for both people and animals. The population of the world is increasing, with a growing demand for dairy products, so it is ever more important that we should be conscious of our environment.

We have patented a number of inventions that make our machines not only safer and more user-friendly, but also durable and economical. **The following inventions contribute to a greener, more sustainable world:**

1. CUTTING SYSTEM



The unique Trioliet cutting system requires less energy than, for example, a shredder. Furthermore, it produces a smooth, sealed silage face which reduces secondary fermentation and over heating. This maintains the optimum feeding quality of the silage due to reduced wastage at the silage face. The machine requires less fuel because the cutting system provides optimal cutting strength with relatively low power. The structure of the feed remains intact leading to better utilisation of the feed and less wastage. The TU silage cutter, the self-loading UKW feeders, the self-loading mixer feeders, the self-propelled Triotractor and the Triomatic automatic feeding system are equipped with a cutting system and are therefore assigned the Green label.

2. SELF-PROPELLED MIXER FEEDERS



Research has shown that the fuel consumption of the Triotractor self-propelled mixer feeder is exceptionally low. Due to the fact the mixer feeders are equipped with the Trioliet cutting system with a low power consumption, the self-propelled feeders are equipped with a light motor. A motor 175 hp/129 kW for the Triotractor is sufficient for operation.

3. SHIFTRONIC 2/3 SPEED



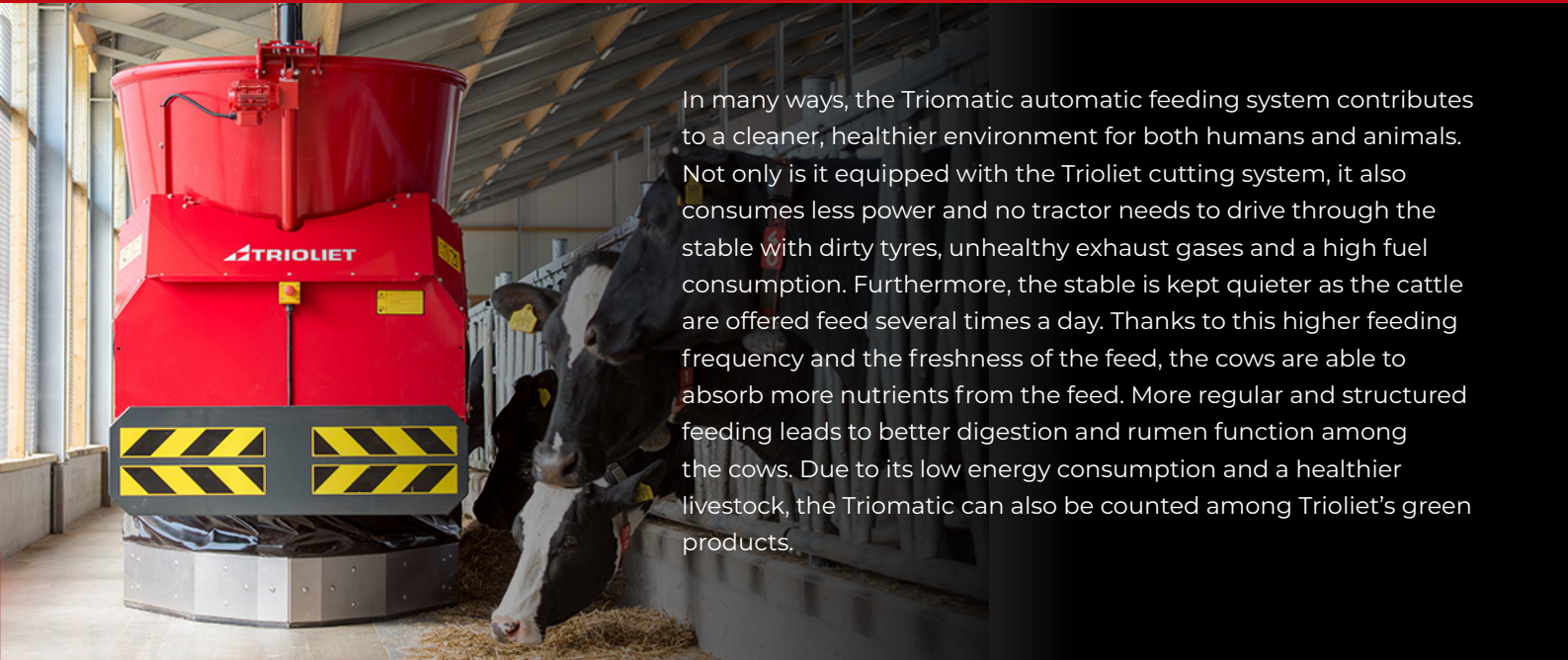
The Shifttronic makes it possible for the heavier machines (>18m³) to be driven by lighter tractors. The Shifttronic switches automatically to the most appropriate mixing speed. This prevents overloading in the drive line of the mixer feeder and of the power take off of the tractor, and requires less power.

4. SPRAY UNIT



The spray unit with water tank can be installed on the straw blower unit. The spray unit moistens the straw so that less dust gets out into the air. Cleaner air for both people and animals. The Solomix P therefore qualifies for the Green label.

5. TRIOMATIC AUTOMATIC FEEDING SYSTEM



In many ways, the Triomatic automatic feeding system contributes to a cleaner, healthier environment for both humans and animals. Not only is it equipped with the Trioliet cutting system, it also consumes less power and no tractor needs to drive through the stable with dirty tyres, unhealthy exhaust gases and a high fuel consumption. Furthermore, the stable is kept quieter as the cattle are offered feed several times a day. Thanks to this higher feeding frequency and the freshness of the feed, the cows are able to absorb more nutrients from the feed. More regular and structured feeding leads to better digestion and rumen function among the cows. Due to its low energy consumption and a healthier livestock, the Triomatic can also be counted among Trioliet's green products.

Triomatic battery-powered feeding robot

Automatic feeding is now an integral part of professional livestock farming. This Triomatic battery-powered robot has the largest capacity (3m³), the best mixing quality and the lowest total cost of ownership. The robot follows its route using sensors. Detection sensors on the robot ensure that it stops automatically when it detects objects in the way. The feeding robot can be combined with all types of Triomatic feed kitchens.

The feeding robot has a large-capacity battery with a short charging cycle. Once the robot enters the feed kitchen, it connects to the electricity grid, meaning the battery is not used in the feed kitchen to move the robot or mix the feed. The battery begins to charge as soon as the robot is connected to the grid. It can also be charged via solar energy.

Accurate and energy-saving

The Triomatic loads feed to an accuracy of one kilogram. The feed is mixed and cut at high speeds to create a homogeneous mixture, preventing the cows from choosing which feed to ingest. The robot can mix while in motion, enabling multiple groups of cows to be quickly fed one after the other. The robot starts to administer the feed using just one auger to save energy. To empty the mixing tub fully, the augers rotate at a higher speed at the end of the feed session.

High capacity system

The Triomatic feeding robot makes it possible to feed animals multiple times a day with a balanced ration without losing any feed or requiring additional effort. One robot can feed about 350 cows, but multiple robots can be deployed at the same time.

Go to www.trioliet.com to view all Triomatic automatic feeding systems.