TRIOLIET
FEEDING TECHNOLOGY



TRIOMATIC T50

Electric Bale Processor

Trioliet. Invents for you.

The optimum particle length of fibrous feeds such as straw is playing an increasingly important role in feeding dairy and beef cattle. A consistent, optimally adjusted fiber length promotes rumen function, supports animal health, and helps improve feed intake. It also enables a homogeneous TMR mix and improves the efficiency of the entire feeding process. As a result, the precise processing of fibrous feed is becoming increasingly important.

To meet this growing demand, Trioliet has developed the new Triomatic T50. The innovative bale processor is designed for the Triomatic automated feeding system and processes bales of straw, hay, and alfalfa precisely to the required particle length.

GENTLE PROCESSING WITH MINIMAL DUST

At the heart of the T50 is a newly developed cutting system featuring durable Trioliet knives. The specially designed processing rotor operates at low speed. This processes the feed gently while keeping dust and feed losses to a minimum. The fiber structure is preserved, eliminating the need for additional dust removal.

A patented knife protection system protects the knives from damage caused by stones and other foreign objects. This increases operational reliability, extends knife life, and helps reduce maintenance costs.

ACCURATE DOSING INTO THE FEEDING ROBOT

The Triomatic T50 was developed specifically for integration into Triomatic automated feeding systems. The machine can dose the required amount of fibrous feed directly into the feeding robot with 500 gram-level accuracy. Alternatively, it can be used as a stationary unit to prepare, for example, a week's supply and dose it as required into a Triomatic feed storage bunker, or to prepare fibrous feed in advance for conventional feeding equipment.





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PROCESS FEED DIRECTLY ON THE FARM

The growing demand for optimum particle lengths in fibrous feed means that many dairy farms purchase pre-processed chopped straw. However, long transport distances result in high costs and additional CO_2 emissions, even though straw is often available locally.

Alternatively, contractors process the material using mobile hammer mills and high-powered tractors. However, this method consumes large amounts of energy and fuel, generates considerable dust, and involves additional costs.

With the Triomatic T50, Trioliet offers an economical and sustainable alternative. Straw, hay, or alfalfa can be processed directly on the farm, as required, to the desired particle length in an energy-efficient, low-dust process. This reduces transport, fuel, and external processing costs, improves feed quality, and also enables the efficient use of self-generated energy.







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BENEFITS OF THE TRIOMATIC T50

- Suitable for round and square bales of straw, hay, and alfalfa
- Consistent processing to a theoretical cut length of approximately 25 millimeters
- Different screens for various particle lengths and throughput capacities
- Low operating speed for gentle, low-dust processing
- Durable Trioliet knives
- Patented protection of the knives against foreign objects
- Kilogram-accurate dosing into the Triomatic feeding robot
- Energy-efficient electric drive
- Flexible integration into existing and new Triomatic feed kitchens
- Lower transport, fuel, and external processing costs

With the Triomatic T50, Trioliet expands its automated feeding system with a flexible and economical solution for the precise processing of fibrous feed. This allows dairy and beef farms to combine consistent feed quality with more efficient workflows.

TECHNICAL SPECIFICATIONS:

SPECIFICATIONS	
Bale types	square and round bales
Round bale dimensions	≤ 180 cm
Square bale dimensions	≤ 90 x 120 x 240 cm
Processing capacity	approx. 800 kg / hour
Average power consumption	6 kWh
Total number of knives	56
Knife spacing	25 mm
Required electrical connection	3 x 40 A
Required voltage	400 V



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