

Trioliet. Invents for you.

Trioliet biogas feeding systems

Stationary mixers with infinitely long life

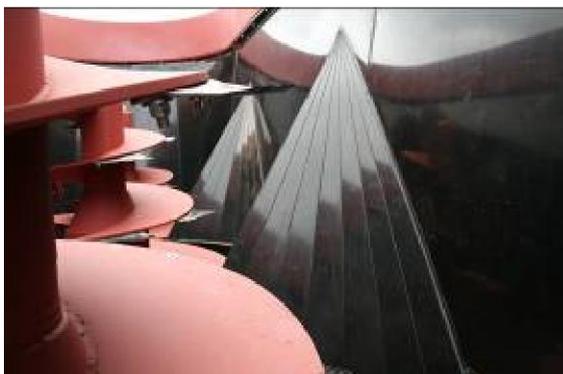
The challenge for any biogas producer is to generate as much energy as possible with a minimum energy input. To achieve a positive return on investment is not always that simple. Most important is the kind of feeding system. For the feeding of biogas plants Trioliet offers stationary mixers with vertical augers with a capacity from 7 up to 80 m³. The feeding systems of Trioliet have a number of advantages.

The vertical augers feed the digester very accurate. All kinds of organic waste, such as silage and other long fibrous residues that usual are difficult to dispense, are being well mixed and accurately discharged before being transported into the digester. Besides that each auger is being driven by an electric motor and thanks to the small auger diameter they require low horsepower (up to 7.5 and 5.5 kW for mixing).

Triocot lining

The most important advantage is the durability of Trioliet's mixing chambers.

Due to the high degree of acidity of the organic materials the mixing chambers have a lot to bear. Therefore Trioliet developed a special lining; Triocot. Triocot at least doubles the lifespan of feeding systems for biogas. Research demonstrates that the thermoplastic lining resists acids and mechanical wear of circulating products as a result of which stationary mixers live considerably longer. Trioliet even gives four years warranty on the Triocot coating*.



While other manufacturers choose the relatively expensive stainless steel, Trioliet chooses for a polyethylene lining. Polyethylene has some advantages over stainless steel. It is easier to handle, it is lighter and the wear is minimal. Besides that Trioliet covers the entire tub and not only the key spots. The Triocot lining can also be applied on existing mixers on location.

Actually the tub gets an infinitely long life because a new lining can always be applied, if necessary. Tests have shown that the life of an 8 mm thick

polyethylene lining is equivalent to a lining of 5 mm thick stainless steel. The Triocot lining in the biogas systems of Trioliet are 8-12 mm thick. Other manufacturers often apply liners of only 2-3 mm stainless steel.

Customer Satisfaction Survey

A satisfaction survey showed that 98% of Trioliet customers are satisfied about the Triocot lining and consider it as very reliable. In particular the longevity is mentioned as one of the main advantages of Trioliet's biogas mixers. More than 50% of those surveyed say with certainty that they would choose Triocot lining on their Trioliet stationary mixer feeder in the future.

* Ask for the conditions.