

# Long Term Vessel

## Process

Conditioning is the result of the variables moisture, temperature and time. As moisture and temperature are related, time is the ultimate variable to enhance the process. Time can be gained with the application of a Long Term Vessel (LTV). The LTV, placed after the steam mixer, significantly improves the process of feed conditioning. This has a major effect on biosecurity, optimizing the nutritional quality of the feed and enhancing the pelletability of the product as well as improving the pellet quality.

## Benefits

- ▶ Better physical (hardness and durability) and chemical (gelatinisation, pathogenic germs, etc.) quality of the mash and pellets are possible, in combination with a tuned recipe and die configuration
- ▶ Variable retention time up to 4 min at a temperature up to 90°C
- ▶ Optimal product treatment due to LTV screw, guarantees first in - first out principle
- ▶ Very low energy consumption (less than 0.25 kWh/ton possible)
- ▶ Up to 20% higher capacity of the pellet mill
- ▶ Up to 20% less energy consumption of the pellet mill
- ▶ Wide range of raw materials, with more difficult gelatinization, can be processed
- ▶ Optimal operation of LTV is fully integrated with pellet mill control
- ▶ Ensures equal, continuous and accurate feeding of the pellet mill
- ▶ Better performance of the animals (production, feed conversion as well as health status)

## Features

- ▶ Frequency controlled drives to achieve necessary retention times and equal filling of the pellet mill
- ▶ All parts that come into contact with product are manufactured out of stainless steel for prevention of corrosion and minimizing contamination



- ▶ The outer vessel body is provided with an electrical heated system and insulation to prevent condensation inside the LTV and maintain optimal temperature
- ▶ Large, hinged doors for easy cleaning
- ▶ Doors provided with safety switches
- ▶ Individually driven pellet mill-feeding disc, which guarantees a constant and optimal load of the pellet mill
- ▶ Level switch in the outlet for detecting overload on pellet mill
- ▶ Automatically self-cleaning PT100 in the outlet for product temperature registration
- ▶ All provisions are made to place the steam mixer directly on top of the LTV
- ▶ Height-adjustable feet, to accommodate optimal placement
- ▶ Transport frame under the LTV, with detachable wheels for easy transportation
- ▶ Designed and constructed according to CE and ATEX safety regulations

## Options

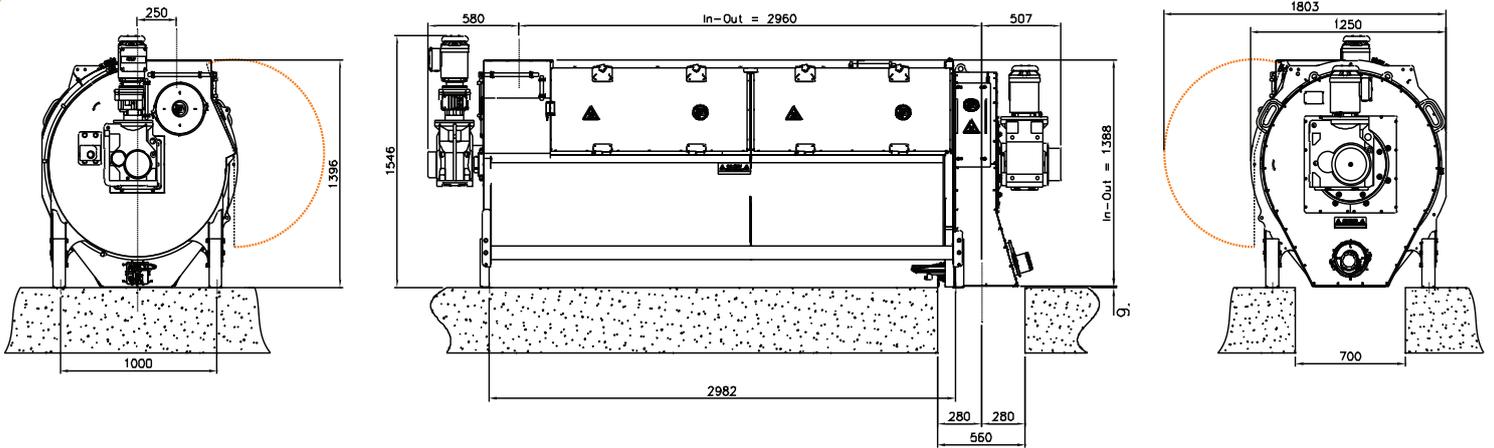
The LTV is a functional, complete machine, in which all safety devices, optimal control requirements and other necessary features are included.



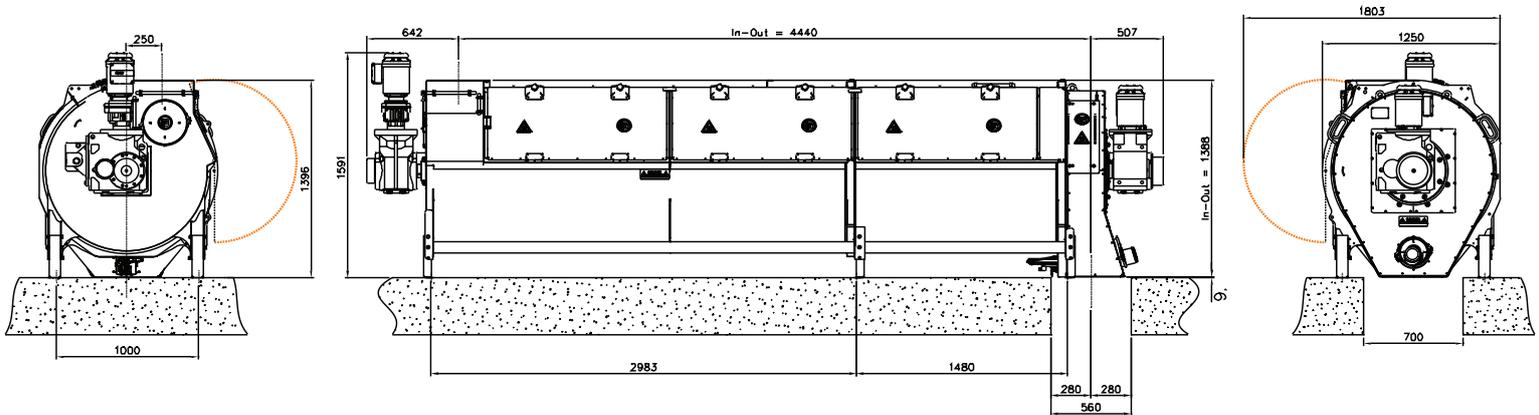


LTV 4500

**LTV 3000. Retention time 1-4 minutes (1.5 minute: 72 m<sup>3</sup>/h and 4 minutes: 24 m<sup>3</sup>/h).**



**LTV 4500. Retention time 2-4 minutes (2 minutes: 72 m<sup>3</sup>/h and 4 minutes: 36 m<sup>3</sup>/h).**



	LTV 3000	LTV 4500
Weight (without product)	1700 kg	2200 kg
Maximum product volume inside	1600 l	2400 l
Drive retention vessel	1.5 kW	2.2 kW
Drive pellet mill feeding disc	2.2 kW	2.2 kW