

# Long residence time horizontal conditioners MLD



The long residence time horizontal conditioner is designed to increase the residence time of the heated meal and to improve the parameters required to obtain a high quality pelleting results. The processing temperatures range from 60°C to 100°C for a treatment time of 30 seconds up to 6 minutes.

Such heat treatment is designed to increase the flow rate on the pellet mill and to improve pellets durability. It also kills the pathogenic germs, improves digestibility of products resulting from this process, limits wearing, energy consumption and shrinkage.

The regulated feeding of the pellet mill is achieved via a special valve with adjustable speed.

The screw feeding the conditioner is called “clogging” screw.

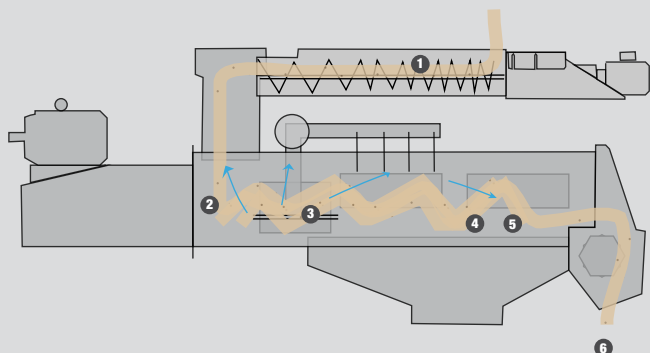


# Long residence time horizontal conditioner MLD

## Features

- Body heating by electrical wire
- Body insulation
- Liquids incorporation
- Temperature sensors
- Fabrication stainless steel

## Operating principle



Meal is introduced via a special screw ① or “clogging” screw that provides a safe, steady and controlled feeding. The product enters the conditioner ② where the heat treatment is carried out by direct steam injection ③ according to set parameters and depending on the product to be treated. The product which is introduced by gravity and blended by rotors ④ is affected by a shearing effect and is stopped at the outlet until the instruction is given by a certain temperature and residence time. The paddles ⑤ are adjusted to optimize the homogeneity of the residence time, the mixing of the product and the control of the absorbed torque. Finally the mixture is guided to a feed chute for extraction ⑥



Long residence time horizontal conditioner



Long residence time horizontal conditioner on pellet mill

Range	Length	Width	Height	Diameter	Useful length	Power	Speed (50 Hz)
	mm	mm	mm	mm	mm	kW	rpm
MLD 550	3150	900	1000	550	2450	18,5	70
MLD 680	3700	1100	1160	680	3000	30	60