

Automatic Feeding System



THE SYSTEM

- The system is made of a plastic tube with a stainless steel spiral in it.
- The stainless steel spiral is driven by a motor gearbox at the end.
- At the beginning of the spiral, there is an inlet (fixed to the floor) with a small silo on top of it. There the grains or pellets can enter into the system.



INLET SILO

The inlet silo can be situated:

- Below a bigger storage silo.
- Underneath plastic trolleys with an opening at the bottom which are on wheels and are 'parked' over this inlet, where the outlet of the trolley is then opened.



The tube and spiral pass over the line of machines and above every individual silo of a machine, there is a pipe going down in the silo which can be closed or opened.

CONTROL BOX

The system is equipped with an electric control box which has a main on -off switch and then a switch with three positions:

- 0-hand-automatic
- If placed on 0: the spiral is not turning
- If placed on hand: the spiral is turning all the time
- If placed on automatic: the turning of the spiral is controlled by means of a level switch in the silo of the last (working) machine in the line (closest to the driving motor gearbox).

When the level in the machine silo becomes too low, the spiral starts turning and is taking grains which fall in the silo of the first machine until the silo and pipe are full. The spiral then takes the grains further to fill the second machine silo etc., until the level in the last machine silo reaches the high position and then the spiral stops turning.

INSTALLATION

The automatic feeding system takes about 2 days to install with 2 technicians and just needs an electricity connection (3-phase, neutral + ground, 16A) to supply the control box.