

M101002

R100 PORK RESTRAINER

Description:

The R100 pig restrainer is a machine designed for the guiding, restraining, and stunning by electronarcosis of pigs weighing between 50 and 300 kg, with a production capacity of 50 to 200 pigs per hour. The unit is structurally built in AISI 304 stainless steel and is equipped with twin conveyor belts using modular acetal bands, each powered by a 1.5 kW motor.

It includes a pneumatically adjustable overhead guide rail to prevent pigs from climbing over one another.

The system uses Eurobelt-type modular acetal belts, and requires minimal maintenance, with weekly lubrication of the UCF bearing units. Both the belt gap and the height of the upper guide are manually adjustable. Mecanova recommends an initial adjustment based on the most common animal sizes handled by the customer.

The restrainer is designed for easy cleaning, both inside and outside. The standard machine length is 4,000 mm, but custom lengths can be manufactured on request.

The system operates automatically via a 24V foot pedal, controlled by the stunning operator, allowing precise animal dosing. A bleeding table is recommended at the restrainer's discharge point.



Technical Specifications:

- Frame made of 100 x 100 x 3 mm square stainless steel tubing (AISI 304)
- Conveyor belt supports built with 40 x 40 x 2 mm and/or 40 x 20 x 2 mm stainless steel tubing, with 5 mm thick laser-cut stainless steel side plates
- Drive and return shafts made from 40 x 40 mm solid stainless steel, fitted with 250 mm diameter acetal sprockets
- Side guides and wear strips made from bolted polyethylene panels
- Bearings: UCF 206 in stainless steel with acetal housings
- Mechanical belt tensioning applied on the return-side UCF units
- Gear motor: 1.5 kW, with a belt speed of 14 m/min
- Upper guide system: manually height-adjustable (optionally pneumatic), built in stainless steel with PE-500 guide strips. Includes four Ø 30 x 1.5 mm round stainless steel tubes to prevent animals from climbing over one another
- Operated via an IP66-rated electrical control panel, with safety module and two operating modes: manual and automatic
- In automatic mode, the conveyor advances step by step, activated by a 24V foot pedal

DEMONSTRATION VIDEO



Documentation

The following documentation will be delivered with the machine:

- CE Warranty Certificate
- Operation and Maintenance Manual
- Recommended Spare Parts List
- Referenced Component Drawings for the Maintenance Department
- Electrical and/or Hydraulic Schematics



