

M101320

MEC-100 DEHAIRING MACHINE

Description:

Mecanova's MEC-type dehairing machines are the ideal equipment for processing up to 85 pigs per hour, with dehairing cycles of 42 seconds per carcass, delivering an excellent finish.

This traditional machine is extremely robust, and its top model is capable of processing large animals such as sows. Constructed from hot-dip galvanized steel, it features a scraper shaft that achieves a high-quality finish without damaging anatomical parts. A flexible coupling between the scraper shaft and the gear motor protects the reducer from the shocks inherent in the dehairing process. This results in lower maintenance requirements, greater operational reliability, and a longer service life of the machine.

The equipment includes a control and command panel (quoted separately) with a frequency inverter, allowing the system to be adjusted according to the animal's weight, ensuring optimal dehairing performance.

A touchscreen interface enables the operator to configure dehairing times and rotation speed.



Technical Specifications:

- Frame made of VPN 140 profile in S275 JR hot-dip galvanized steel and 8 mm folded sheet metal in S275 JR
- Scraper shaft in F125, length 1-2-995 mm, mounted on a 406 mm diameter tube with 10 mm thickness
- Shaft mounted on Timken bearings
- Gear motor: 11 kW
- Pneumatic cylinders for opening the scraper comb (2 units), $\Phi 100$ mm, brand Metalwork
- Front and rear curtains made of 1.5 mm transparent polyurethane
- Side doors with locking system, made of stainless steel
- Scraping paddles: 77 units
- Dimensions: 2880 x 1634 x 2200 mm
- Weight: approx. 1500 kg.

DEMONSTRATION VIDEO



Electrical Control Panel:

The electrical protection and control panel can either be integrated into the main control cabinet of the slaughter line or supplied as a standalone unit.

In both configurations, a local 24V control box will be installed next to the machine to allow easy adjustment of the scalding time and scraper shaft rotation speed

Regardless of the selected setup, the panel includes:

- Local control box next to the machine
- Protection and control components
- Frequency inverter (VFD)
- Programmable Logic Controller (PLC)
- Safety module
- Remote support communication module
- Pneumatic control valve
- Compressed air lubrication and drying unit

Documentation

The following documentation will be supplied with the machine:

- CE Warranty Certificate
- Operation and Maintenance Manual
- List of Recommended Spare Parts
- Drawings of Referenced Machine Components for the Maintenance Department
- Electrical and Pneumatic Diagrams





