

M101332

MEC-250 DEHAIRING MACHINE

Description:

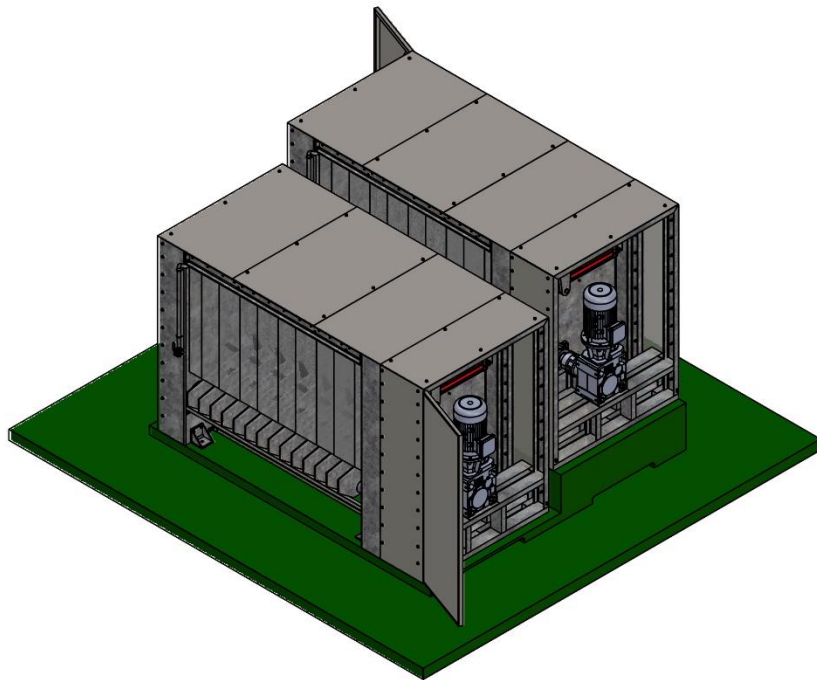
The MEC-type dehairing machines from Mecanova are the ideal solution for processing between 120 and 250 pigs per hour, with dehairing cycles ranging from 40 to 50 seconds for one or two animals, achieving an excellent finish.

This is a batch-type machine capable of dehairing up to four pigs of approximately 120 kg simultaneously.

The machine is equipped with two cascading dehairing shafts, meaning the animals spend half the dehairing cycle on the first shaft and the other half on the second. This setup delivers two pigs every 20 seconds, equating to six pigs per minute. The machine achieves excellent dehairing quality at capacities up to 250 pigs/hour. However, for continuous production at this rate, we recommend our continuous U-bar type dehairing machines.

This is a traditional and highly robust design. In its largest version, it can handle large pigs such as sows. Manufactured in hot-dip galvanized carbon steel, it features a scraper shaft that achieves excellent finishing without damaging extremities. A flexible coupling between the scraper shaft and the gearmotor protects the gearbox from impact stress during dehairing, ensuring lower maintenance requirements, greater operational reliability, and an extended service life.

The machine is supplied with an optional control panel (quoted separately) equipped with a frequency inverter, allowing adjustment of the cycle time and scraper shaft speed according to the animal's weight, optimizing dehairing performance. A touchscreen interface allows the operator to easily set the cycle time and rotation speed.



Technical Specifications:

- Double-unit system based on the MEC-170 dehairing machine
- Frame constructed from UPN 140 profiles in hot-dip galvanized S275 JR carbon steel, with folded plates of 8 mm thickness (S275 JR)
- Two scraper shafts made of F125 steel, length 1-2-995, mounted on Ø406 mm tubes with 10 mm wall thickness
- Shafts mounted on Timken bearings
- Two gearmotors of 15 kW each — total installed power: 30 kW
- Two pneumatic cylinder units (Ø100 mm, Metalwork) for comb opening
- Transparent polyurethane curtains (1.5 mm thick) at the front and rear
- Side access doors in stainless steel with safety lock
- 210 reinforced scraper paddles
- Overall dimensions: 3,483 × 3,338 × 2,734 mm (L × W × H)
- Approximate weight: 8,000 kg.

DEMONSTRATION VIDEO



Electrical control panel:

The electrical control and protection 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 control box with 24V supply will be installed next to the machine to facilitate dehairing time and scraper shaft speed settings.

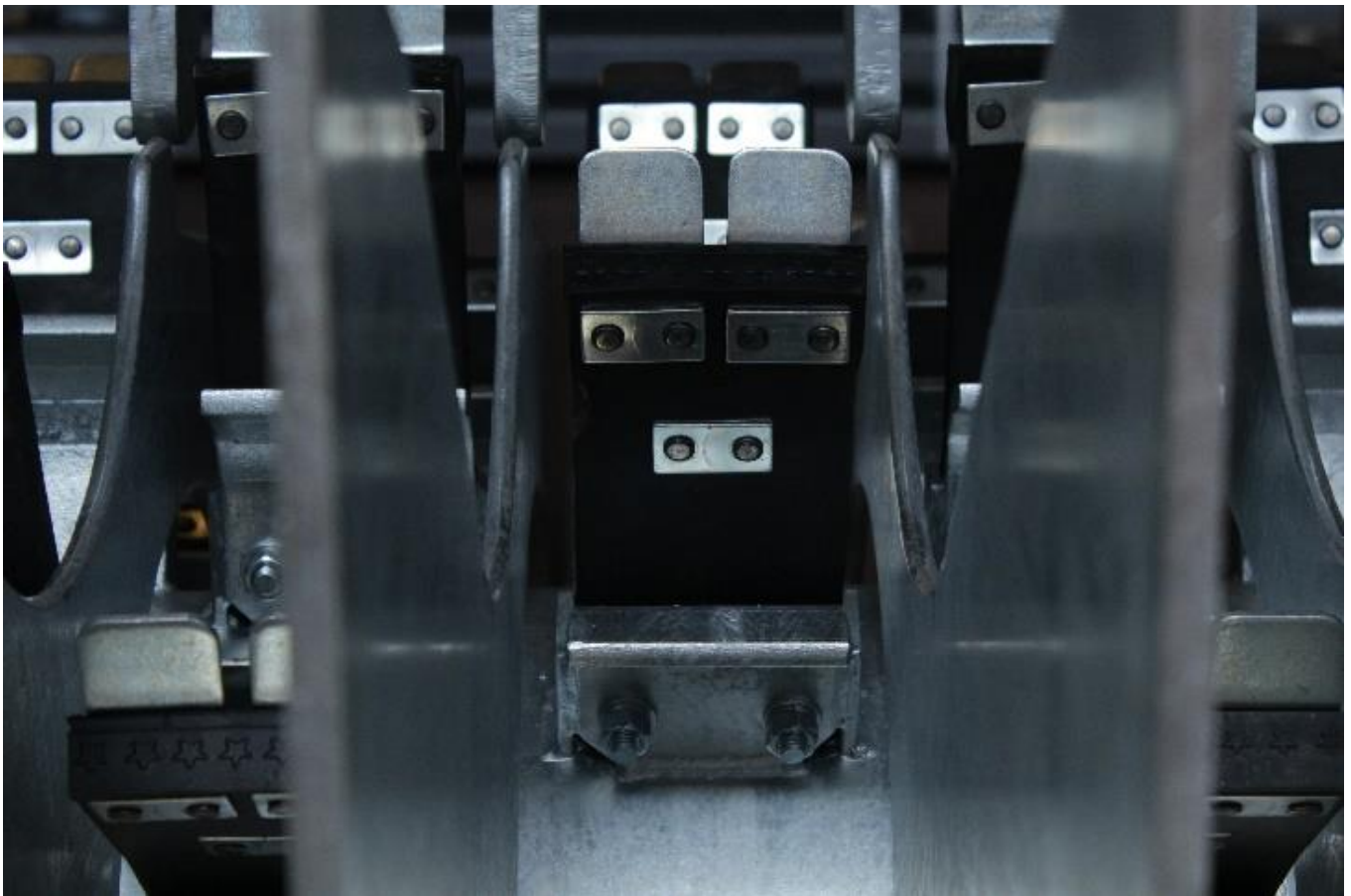
Regardless of the selected configuration, the panel includes:

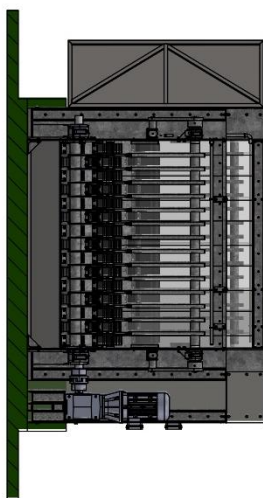
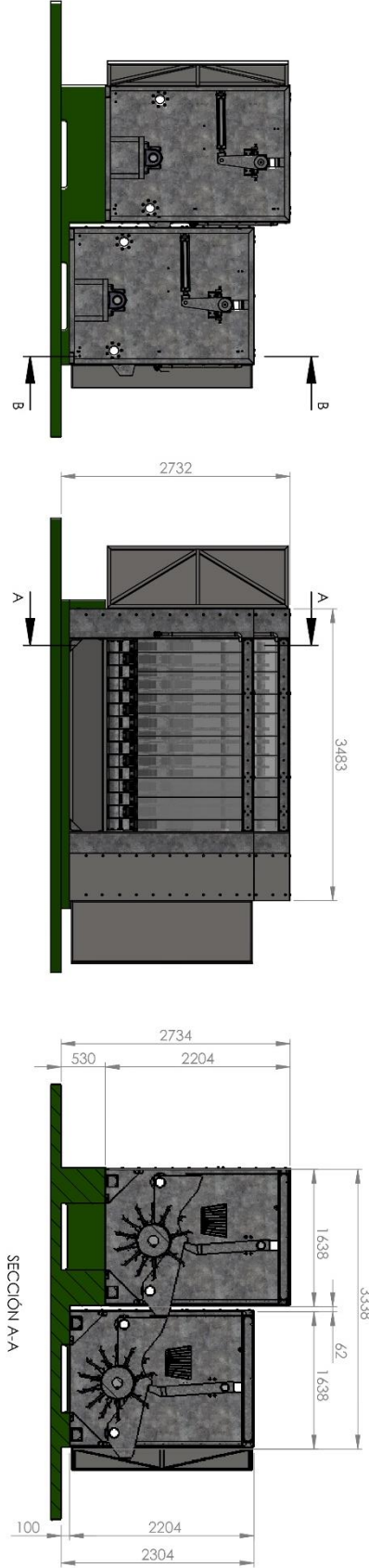
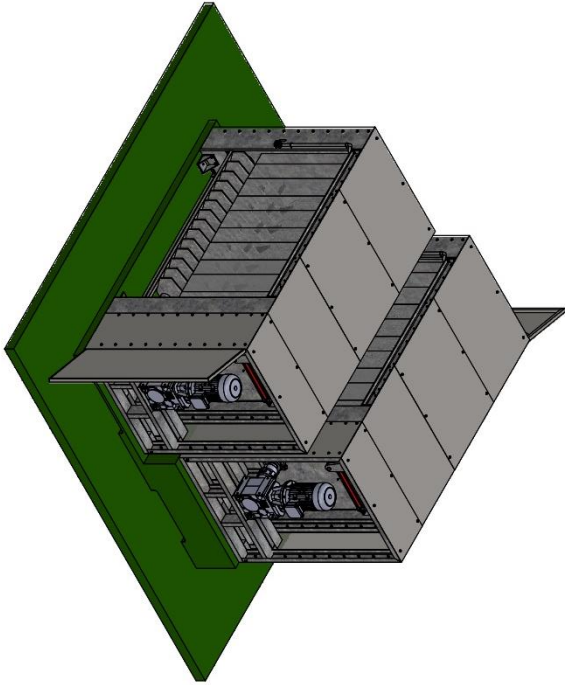
- Local control box next to the machine
- Protection and control components
- Frequency inverter (VFD)
- Programmable Logic Controller (PLC)
- Safety module
- Remote assistance communication module
- Pneumatic control valve
- Compressed air lubrication and drying unit

Documentation


The following documentation will be supplied with the machine:

- CE warranty certificate
- User and maintenance manual
- Recommended spare parts list
- Technical drawings with part references for the maintenance department
- Electrical and pneumatic schematics





SECCIÓN B-B

MODIFICACIÓN		REVISIÓN		OBSERVACIONES		FECHA	
 <p>MECANOVA INDUSTRIAL S.L.</p>				<p>DESTINACIÓN: 3D Depladora MEC 250</p>			
<p>Escala: 1:50</p>		<p>Dibujado: R.G.C.</p>		<p>PROYECTO: DEPLADORA MEC 250</p>		<p>Material: INOX AISI-304</p>	
<p>Verificado:</p>		<p>Fecha: 24/10/22</p>		<p>CLIENTE:</p>		<p>Acabado Superf: _____</p>	
<p>Fecha:</p>		<p>Ubicación:</p>		<p>REF. PROYECTO: _____</p>		<p>Toler. no indicadas: _____</p>	
						<p>N.º DE PLANO: M101332</p>	
						<p>Rev 0.0</p>	



