LabKab
Fully automated bag emptying system
LabKab

Introduction
Laboteks LabKab machines are built with the latest technology in automatism for the discharge of materials retained in bags/sacks piled up in pallets. A full pallet with bags/sacks of 25 kg each is placed in front of the machine which by means of a movable trolley, grabs the bags/sack and immediately discharges its content completely. The effectiveness is of 99.9%.

The LabKab machines are controlled by a PLC and operated through an intuitive and easy handling 7 inches touch screen. The system has first class moto reducer gear, optical and inductive sensors. It also counts with a security barrier and emergency stop. The trolley that grabs the bags/sacks consists of 8 shafts of hooks. The cutting system possesses a shaft with stainless steel cutting discs which have a template process.

LabKab ABI - semi automatic
The semi automatic opening bags machine counts with a simple functioning that allows a trustworthy and safe opening of sacks, with no material lost and a minimum of effort. At one end it has an in-feed conveyor for the manual loading of bags. Furthermore, it allows the application of a dust extractor on its upper part.

- Low maintenance and reduction of costs and raw material.
- Ideal for pellets, dust and food granulates.

LabKab 6 and 12 - full automatic
Fully automatic machines for the opening and emptying of bags/sacks in containers or silos. Allows an increase in speed in material’s discharge process with no need of specialized operators. The automation is executed with festo pneumatic technology.

- Materials to discharge: Pellets, grains, dust and others.
- Compatible with bags/sacks of plastic, jute and knitted polypropylene.
- Low energy consumption, reduction of raw materials and maintenance costs.

LabKab 12 empties a full pallet with 11 layers of bags (55 bags) in 7 minutes. It’s feeding, as well as the removal of the empty pallet, are carried out by means of a fork-lift. The rest of the operations involve no human intervention.
Options

**Empty bags compactor:** A highly efficient and economic solution to compress empty bags to a hugely reduced volume.

W x H x L: 515 x 2830 x 2120 mm

**Stacker:** Takes empty pallets that are discarded by the LabKab 12T machine with no operator intervention.

W x H x L: 1030 x 2090 x 2700 mm

**In belt conveyor:** Modular system that allows the automation of the load of full pallets. Legs and adjustable rails/tracks for height and position.

Standard dimensions of 1840 mm width and variable lengths.

Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>LabKab Semi</th>
<th>LabKab T6</th>
<th>LabKab T12</th>
<th>LabKab ABI</th>
<th>LabKab KAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>W x H x L mm</td>
<td>1270 x 2450 x 4550</td>
<td>2300 x 3500 x 6035</td>
<td>2300 x 3535 x 6135</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Discharge capacity</td>
<td>5 tons / h</td>
<td>6 tons / h</td>
<td>12 tons / h</td>
<td>6 tons / h</td>
<td>12 tons / h</td>
</tr>
</tbody>
</table>

Compatibility: It can incorporate a belt conveyor that feeds full pallets and another belt conveyor for the removal of empty pallets. Pallets can be discarded or piled up with another peripheral: The stacker. A compactor is another optional to consider for this unit.

LabKab 12

LabKab ABI with robot - fully automatic.
Capacity: 6 tons / h.

KAB Powder, fully automatic. Capacity: 12 tons / h.
Labotek offers 3 years warranty
- excluding wear parts