LINE FOR THE SECONDARY PACKAGING OF PILLOW BAGS, CARDBOARD BOXES AND FLOWPACKED LOAFS INTO CARTON BOXES

⇒ **OUTPUT CAPACITY**: Up to 10 boxes/minute (up to 40 pillow bags/min, or 40 flowpacked loafs/min, or 30 cardboard boxes/min fed to the packaging cell)

⇒ **VERSATILITY**: 3 types of different packages as input (pillow bags, cardboard boxes and flowpack) 8 different weights (depending on the type of primary packaging) and 4 different sizes of carton boxes to fill

⇒ **USER-FRIENDLINESS**: Easy and fast production changeover

⇒ **RELIABILITY**: Designed and built to operate continuously, 3 working shifts per day
DESCRIPTION AND TECHNICAL SPECIFICATIONS

⇒ Product handling through modular plastic belt conveyor
⇒ n.1 FSC - box forming unit
⇒ Handling of the empty boxes between the forming unit and the pick & place cell by means of a modular plastic belt conveyor
⇒ n.1 RV - pick & place robotic cell, Abrigo MRS “Robovision”, with 4-axis delta robot, complete with artificial vision and light, to guide the robot
⇒ n.1 dedicated handling gripper with vacuum cups (based on Venturi effect), suitable for the pillow bags and for the flowpacked loaf
⇒ n.1 dedicated handling gripper with vacuum cups (based on Venturi effect), suitable for the cardboard boxes
⇒ Automatic aligning system for the matrix of cardboard boxes
⇒ Pneumatic system with air treatment and electro valves positioned in field
⇒ Mechanic pusher to transfer the filled boxes onto the cell unloading conveyor
⇒ Handling of the filled boxes between the pick and place cell and the boxes sealing unit, by means of modular plastic belt conveyor
⇒ n.1 CS - boxes sealing unit

WAY OF PACKAGING

Product arriving bulk on a belt conveyor.
Vision system to guide the robot-picker.
Dedicated grippers, according to the characteristics of the primary packaging of the incoming product.
Product positioned horizontally into the boxes.

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>3f • n. 400V, 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed Power</td>
<td>30kW</td>
</tr>
<tr>
<td>Packaging cell dimensions (L x W x h)</td>
<td>2.500 x 2.100 x 2.500mm</td>
</tr>
<tr>
<td>Compressed Air</td>
<td>5bar, 1.600NL/min</td>
</tr>
</tbody>
</table>

Technical data are just for reference purpose and refer to a specific application.