
CARDBOARD BOXES


PILLOW BAGS


FLOWPACK

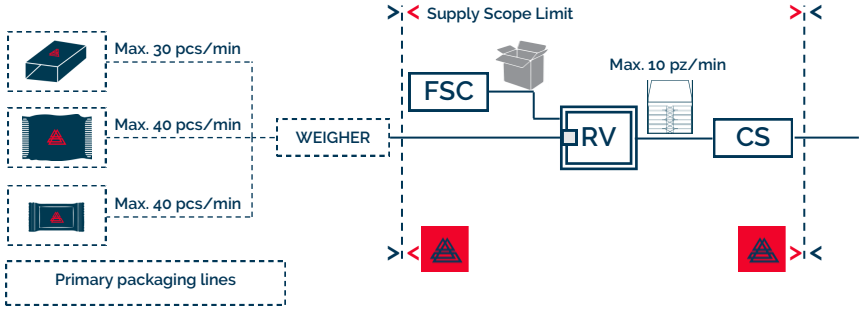
# LINE FOR THE SECONDARY PACKAGING OF PILLOW BAGS, CARDBOARD BOXES AND FLOWPACKED LOAFS INTO CARTON BOXES

⇒ **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






CARTON BOXES

**ABRIGO S.p.A.**
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ABRIGO
ROBOTIC SYSTEMS FOR FOOD INDUSTRY

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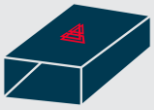
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## DESCRIPTION AND TECHNICAL SPECIFICATIONS

⇒ 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 loafs

⇒ 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

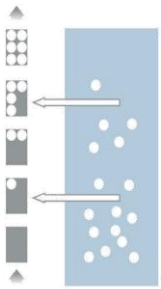
⇒ Pneumatic system with air treatment and electro valves positioned in field

⇒ 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.



| | |
|---|---|
| Power Supply | 3f + n, 400V, 50Hz |
| Installed Power | 30kW |
| Packaging cell dimensions (L x W x h) | 2.500 x 2.100 x 2.500mm |
| Compressed Air | 5bar, 1.600Nl/min |



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

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