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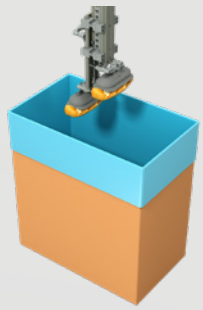
A DURAVANT COMPANY

3-IN-1 ROBOT SOLUTION
ARGOSWING-41

Quality control, counting and pick & place solution to feed any container with any type of frozen bread product.



THE UNIVERSAL BAKERY SOLUTION

Maximum Automation on minimum Footprint

- **Compact** and **high speed** pick & place system
- Box conveying engineered for **optimal flow**
- **Consistent packing** of your products - 24/7
- **Non-conform** products are **ejected**

One solution for all types of frozen bread products

- **Quick changeover** between products & boxes
- In-line product specific **quality control & counting**
- **Robot picking** adaptable to a **wide range of products**
- **Bulk products** can be **packed independently** from the robots

Watch our videos at pattyn.com

TECHNICAL SPECIFICATIONS ARGOSWING-41

3D and color vision technology

- Highly accurate 3D scanning system to guarantee the product shape
- Non-conform products are identified and will not be picked
- Argo3D© inside: newest generation of 3D stereovision

Box conveying

- Empty box distribution and full box collection from a double central conveyor under the product flow
- Empty boxes are buffered upstream into each filling station to guarantee continuous operation of the robots
- Boxes are conveyed short side leading for an optimal flow
- Tiltable box conveyor for easy access

Robot picking system

- Unique Pattyn softwares maximizes robot efficiency
- Minimal interference with the products and maximal speed thanks to ceiling mounted robots
- Each robot functions individually & independently

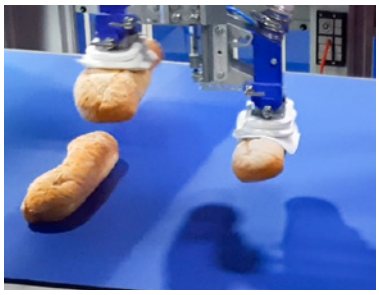
Product handling

- Robots have 2 individual suction cups or mechanical grippers to ensure gentle product handling
- Quick & tool free gripper exchange
- The optimal combination of Double Pick / Single Drop, Double Pick / Double Drop or Single Pick / Single Drop is chosen in function of the product and its packing arrangement
- Only conform products are picked, non-conform products are collected at the end of the line.

Handling of bulk products

- Direct bulk filling station MEC-11 optionally available
- No extra robot capacity is to be foreseen for high volume bulk products
- The combination of the 3D vision counting and an optional bottom-up-finger system separates the product flow accurately into batches

3D Vision



Robot with 2 individual suction cups

Ceiling mounted robot

Optional MEC-11 bulk box filler

CAPACITIES PER ROBOT (UP TO)				
	Double Pick / Single drop		Double Pick / Double drop	Single Pick / Single drop
Rate	2500 p/h	2200 p/h	1750 p/h	1500 p/h
Product Weight Max	150 g	400g	400 g	900g
Product Width Max	180 mm			Box size limit
BOX SIZES				
	Length		Width	Height (flaps open)
Min	400 mm		300 mm	250 mm
Max	610 mm		410 mm	550 mm
CONSUMPTION PER STATION FOR 2 ROBOTS (ABB)				
Installed power	7 kW		Voltage	3 x 400 V + E / 50 Hz
Air supply	6 bars		Air consumption	100 Nl / min
CONSTRUCTION				
Painted steel construction				
Open frame for product conveyor width of 870 or 1000mm				
Weight 1800 kg (one station with 2 robots)				
OPTIONS (More options available, please contact Pattyn)				
Stainless steel frame				
Product conveyor width, 870 or 1000mm				
4K linear color camera for aspect control				
MEC-11 bulk box filler				

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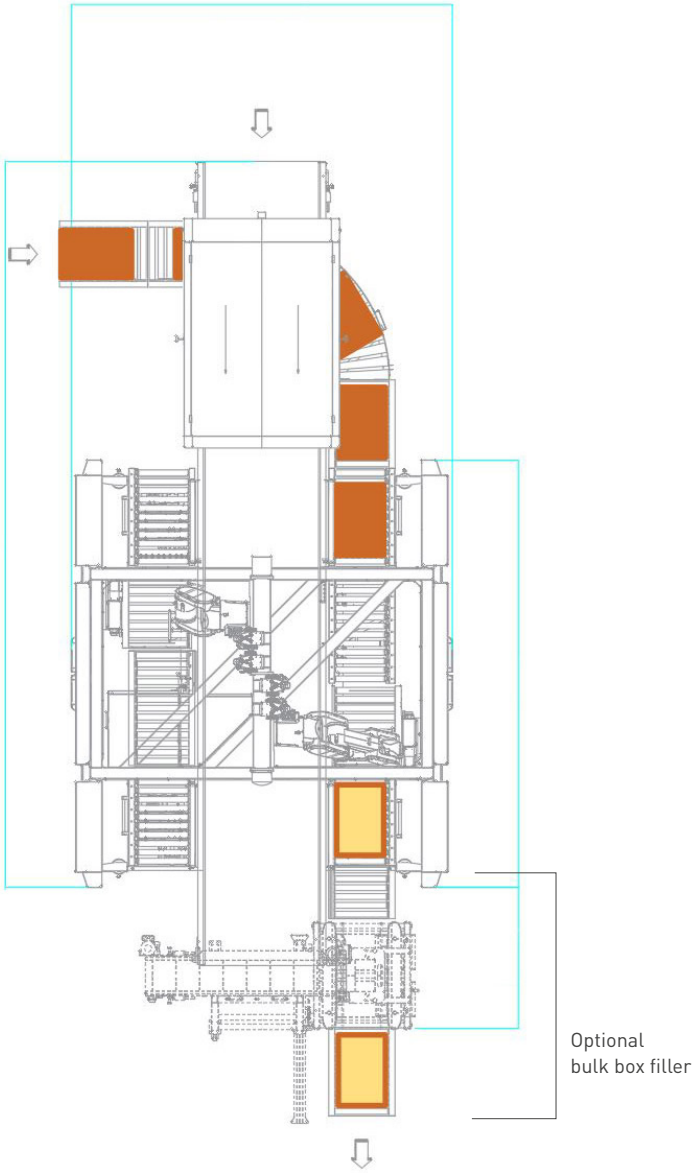
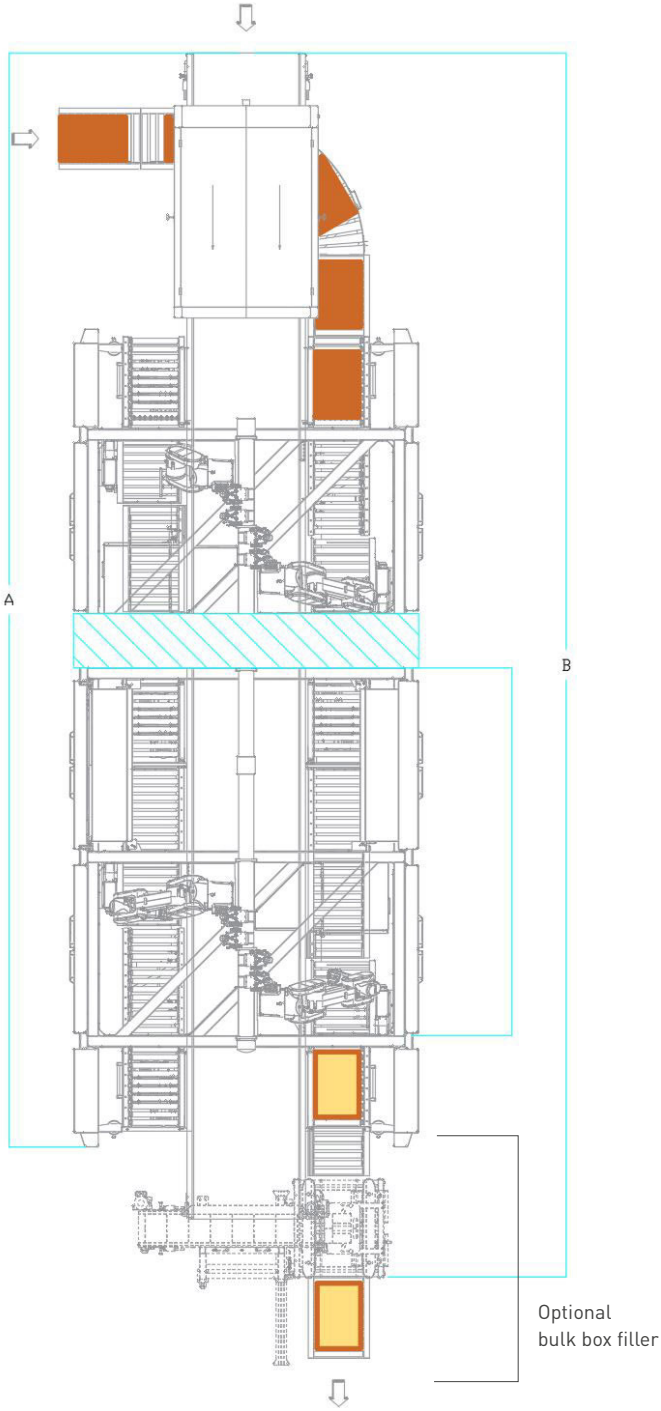
Turnkey solutions for industrial packaging.

DIFFERENT LAYOUT OPTIONS





Number of stations	Number of robots	A (mm)	B (mm)
1	2	6170	7370
2	4	8750	9950
3	6	11330	12530
4	8	13910	15110
5	10	16490	17690

THE UNIVERSAL BAKERY SOLUTION

MAXIMUM AUTOMATION ON A MINIMUM FOOTPRINT

The Argoswing-41 is the most compact and fastest all-in-one bread packing solution available on the market. Thanks to its high speed, compactness, high flexibility and quick changeover, it forms a versatile solution for a multitude of bread products, including baguettes & half baguettes.

By simply adding the optional **MEC-11 bulk box filler**, it is even possible to bulk pack bread products on the same line with a simple changeover.

VISION THROUGH THE EYES OF THE BAKERY EXPERTS

Thanks to Pattyn's extensive experience with bakery vision technology, we were able to develop this unique 3-in-1 robot solution Argoswing-41.
This new vision system is equipped with a completely new camera platform which allows the classic dimensional inspection to be more detailed and allows color inspections such as needed for the baking aspect (level) or scoring.

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