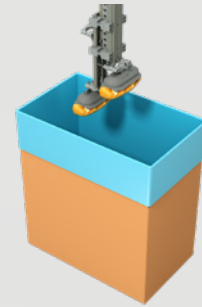


PATTYN

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.



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
- Tilttable 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

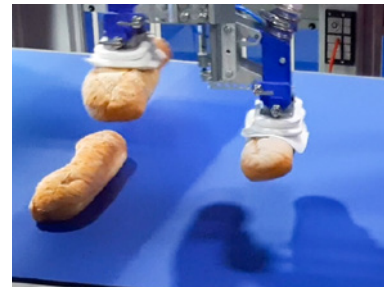
- Robots have 2 individual suction cups or mechanical grippers to ensure gentle product handling
- Quick & tool free gripper exchange
- The optimal combination of Double Pick / Single Drop, Double Pick / Double Drop or Single Pick / Single Drop is chosen in function of the product and its packing arrangement
- 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



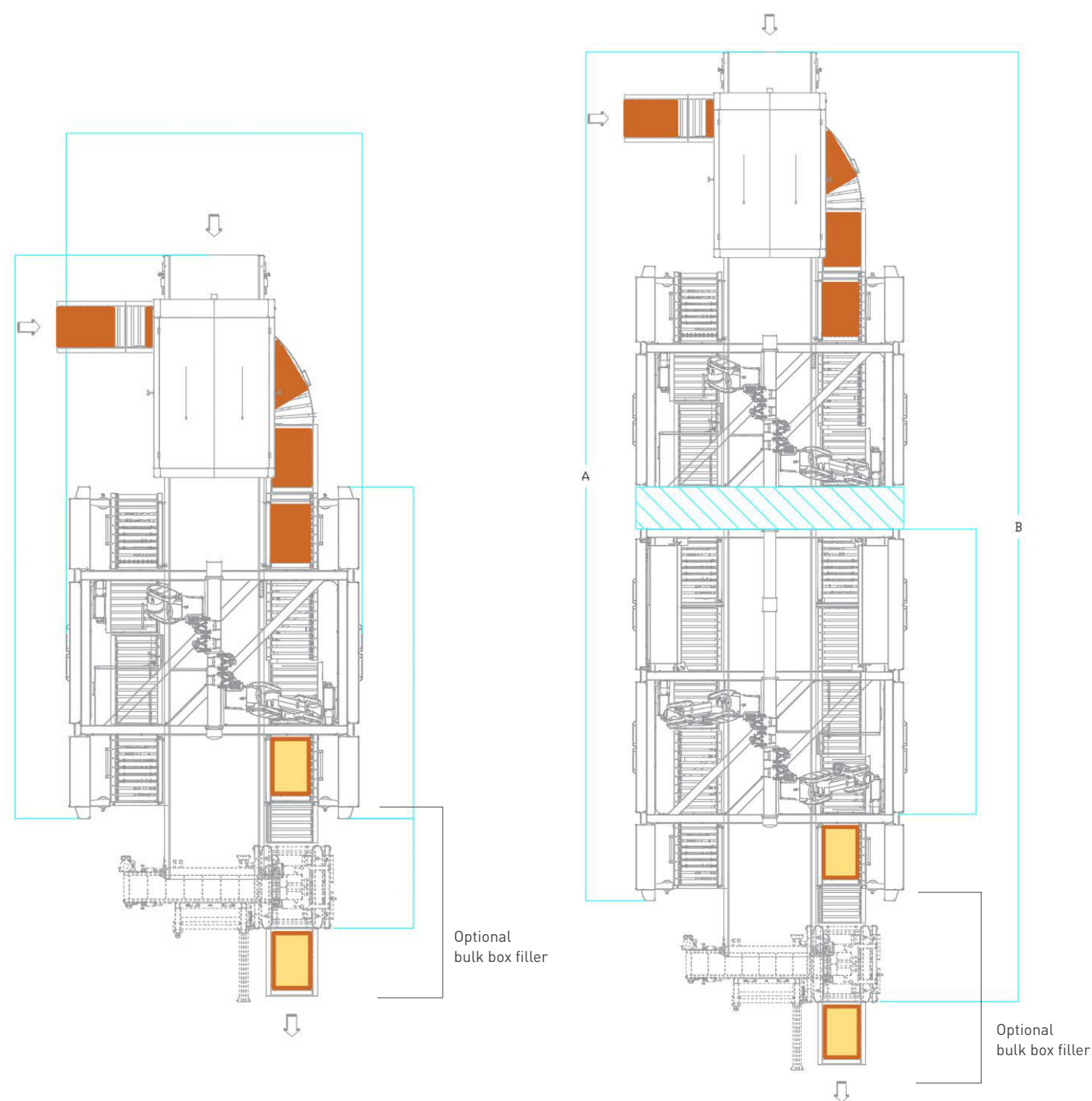
Ceiling mounted robot



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	0.33 lbs	0.88 lbs	0.88 lbs	1.98 lbs
Product Width Max	7"			Box size limit
BOX SIZES				
	Length		Width	Height (flaps open)
Min	15 7/10"		11 4/5"	9 4/5"
Max	24"		16"	21 3/5"
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 NI / min
CONSTRUCTION				
Painted steel construction				
Open frame for product conveyor width of 34" or 39"				
Weight 3968 lbs (one station with 2 robots)				
OPTIONS (More options available, please contact Pattyn)				
Stainless steel frame				
Product conveyor width, 34 1/4" or 39 3/10"				
4K linear color camera for aspect control				
MEC-11 bulk box filler				

DIFFERENT LAYOUT OPTIONS



Number of stations	Number of robots	A (mm)	B (mm)
1	2	243"	290"
2	4	344"	391"
3	6	446"	493"
4	8	547"	594"
5	10	649"	696"

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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Turnkey solutions for industrial packaging.