



BLUEBERRIES

ARÁNDANOS

Sale's Team Documents
Vs. 2021 EN



INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multiformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multifformat System.

4. ECO friendly formats.

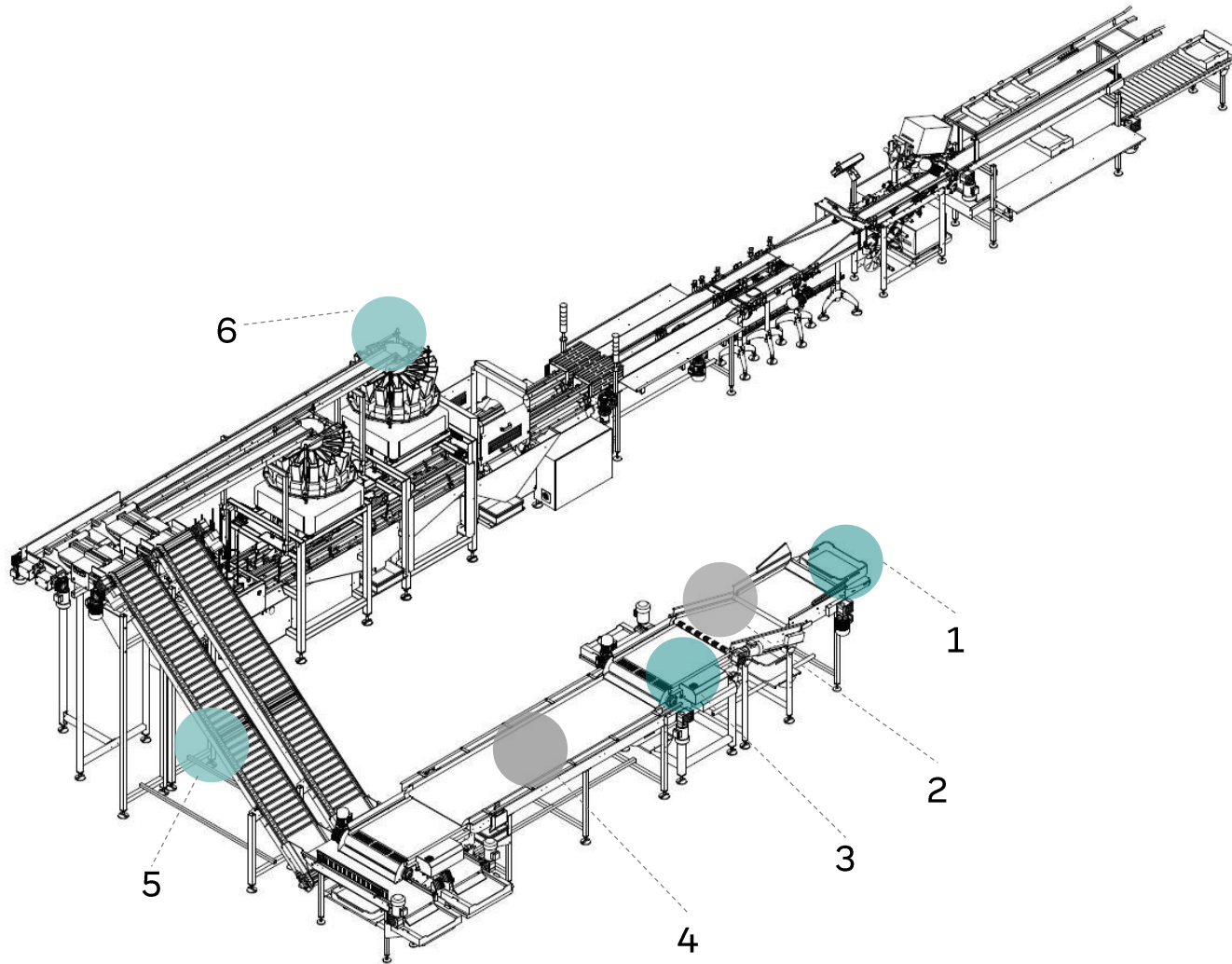
5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

1. The blueberries' journey through the automated packaging line.



1. Emptying conveyor belt.

2. Metal mesh remover.

Metal mesh. Avoids the passage of tails, flowers and seeds. Free passage between meshes of 7.1mm. It includes an evacuation tray.

3. Precalibrator.

Perforated band precalibrator. It discriminates fruits of non-commercial size. Variable tria diameter; 10, 12 or 14 mm. Electric vibrator with intensity control. Tray or conveyor belt to collect the product.

4. Selection table.

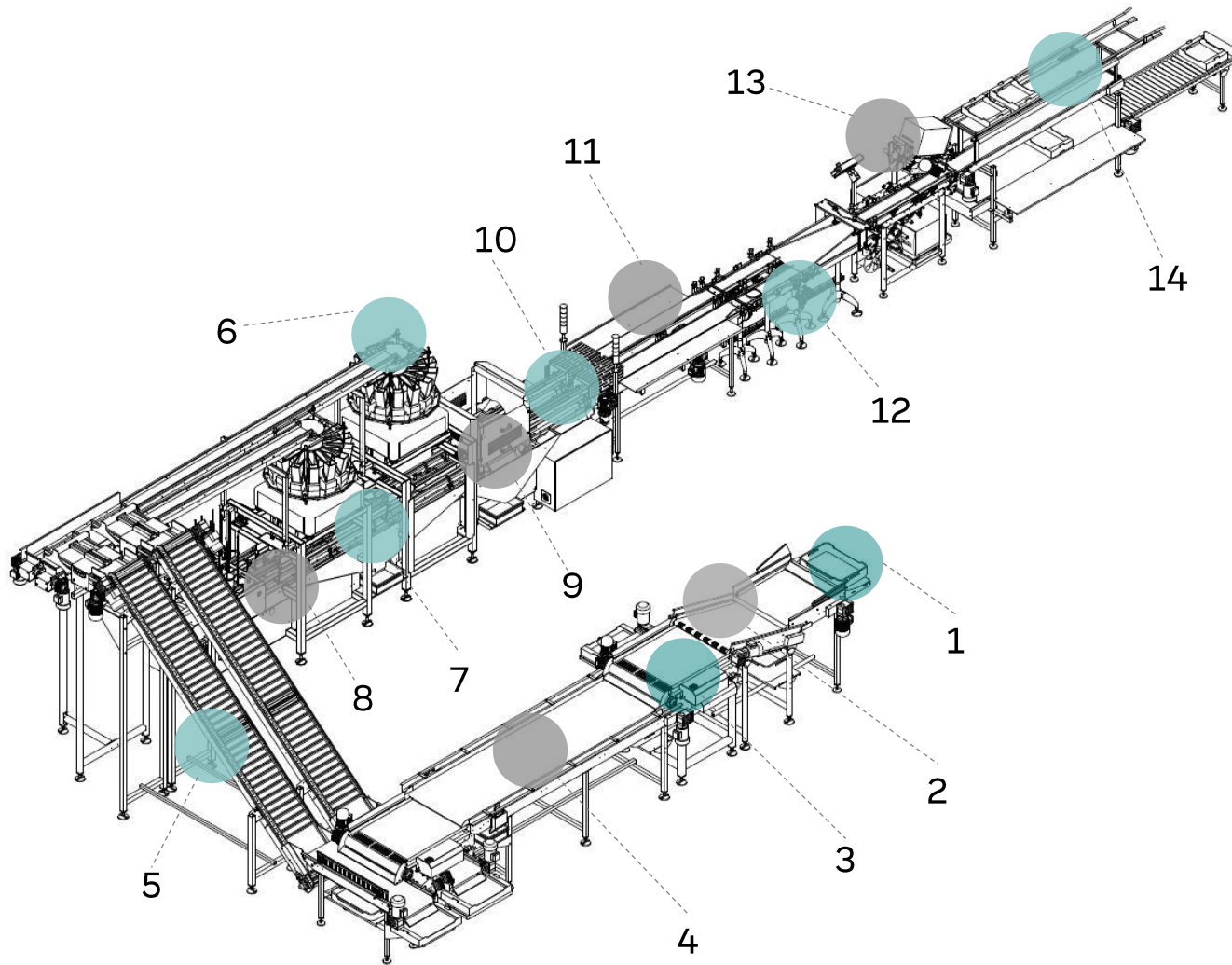
Triage canvas conveyor. Double lane for evacuation of triated product. Trias collection trays. It incorporates anti-rotation product rails and avoids losing the blueberrie's "bloom".

5. Product elevator.

6. Circular Weigher.

Associative multihead weigher with 14 heads. Get clusters of blueberries with the exact weight. Weight error: +/- 1 gram. Accumulation and weighing hoppers of 0.5 L.

1. The blueberries' journey through the automated packaging line.



7. Packaging machine.

Packaging machine for filling trays, cups, punnets, buckets and shakers. Multi-format system. Servo- controlled conveyor. Double memory and filling hopper. Electric vibration system. Remote control.

8. Dispenser.

Double head dispenser. Multi-format system. Allows any type of tray to be dispensed. Quick format change. Alerts when lacking product.

9. Capper.

Servo- motorized rotary capping system designed to cover glasses and buckets of different sizes.

10. Clipper.

Pneumatic system that allows closing trays with a hinge or with a built-in lid. Multi-format system.

11. Capping table.

12. Unifying traffic light.

13. Labeller.

14. Packaging module.

INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multiformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

2. "Shock absorber" System.

The development of this system guarantees the soft and delicate treatment of the blueberry during the different stages of its packaging process.

A tested and validated solution in different varieties of blueberries, ensuring the consistency and flavor of the product until its final destination.

- 1 Conic feeder in spiral.
Alimentación cónica espiral
- 2 Inverted umbrella and decelerator curtain.
Paraguas invertido y cortina desaceleradora
- 3 Short drops with silicone flap.
Caidas bajas con faldeta de silicona.
- 4 Cushioned Teflon central cone slope 30°.
Cono central acolchado teflonado pendiente 30°.
- 5 Double decelerator curtain.
Doble cortina desaceleradora.
- 6 Tefloned and padded memory hopper.
Tolvas de memoria acolchado y teflonado.



INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multiformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

3. Multiformat System.

One of our competitive advantages is that the machines adapt to different packaging formats.

The change is fast and simple: In only one minute the automated line can be adapted from one format to the other.



INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multifformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

4. ECO friendly formats.

At a time when the end consumer pays special attention to packaging formats that respond to the care of the environment, our engineering machines respond to materials such as cardboard and paper.



Trays



Clamshell



Cups with lid



Buckets



INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multiformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

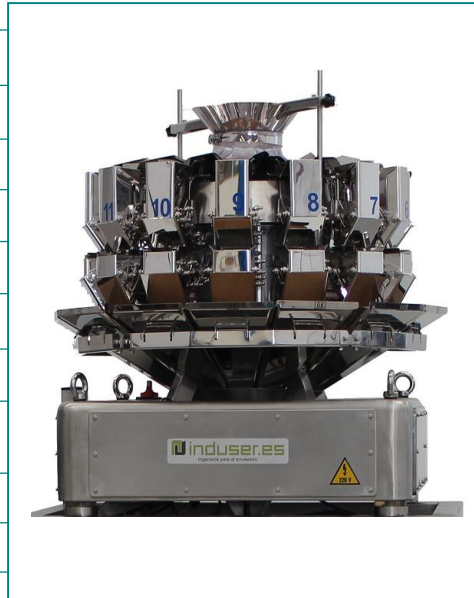
6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

Model	Associative Weigher
Weighing system	1
Average overweight (gr)	900
Production capacity (Kg/hora)	9000
Punnett's Weight (gr)	125
Production per minute (ppm)	120
Excess weighing per minute (gr)	120
Excess weighing per hour (kg)	7,2
Excess weighing 1 day (10 hrs) kg	72
Excess weighing 1 week (7 days) kg	504
Excess weighing 1 month (Kg)	2016
"Give away" 1 month (eur)	12096



Model	Lineal Weigher
Weighing system	5
Average overweight (gr)	900
Production capacity (Kg/hora)	9000
Punnett's Weight (gr)	125
Production per minute (ppm)	120
Excess weighing per minute (gr)	120
Excess weighing per hour (kg)	36
Excess weighing 1 day (10 hrs) kg	360
Excess weighing 1 week (7 days) kg	2520
Excess weighing 1 month (Kg)	10080
"Give away" 1 month (eur)	60480



INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multifformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

6. Quality Research for packaged product in Induser's associative weigher.

We analyze the firmness of the blueberry before and after being packed by one of our circular weighers Vs the lineal weigher of a direct competitor.

We used a durometer with a 2.38 mm spherical identifier, Model Baxlo 53505 FO, ideal for a product like blueberries. This tool allowed us to measure the fruits without destroying, piercing or damaging them.



Technical specifications

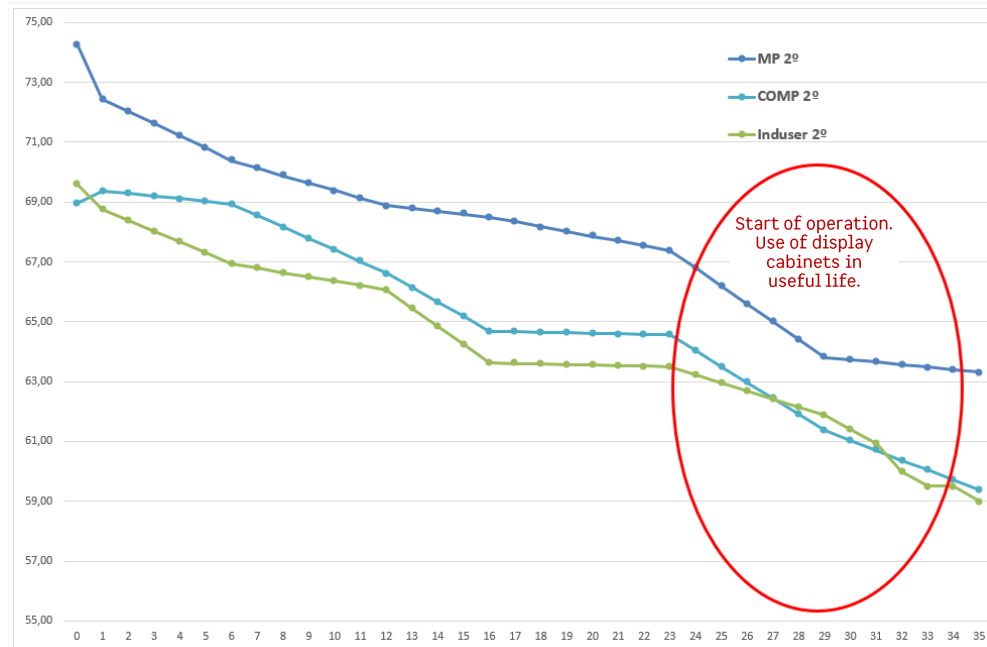
- Measuring range: from 0 to 100 shore units.
- Resolution: 1 unit shore.
- Maximum measurement error: +/- unit shore.
- Maximum measuring force: 820 gr.
- Measurement path: 2,5 mm.
- Dimensions: 65 x 60 x 27 mm.
- Weight: 210 gr.

6. Quality Research for packaged product in Induser's associative weigher.

What did we do?

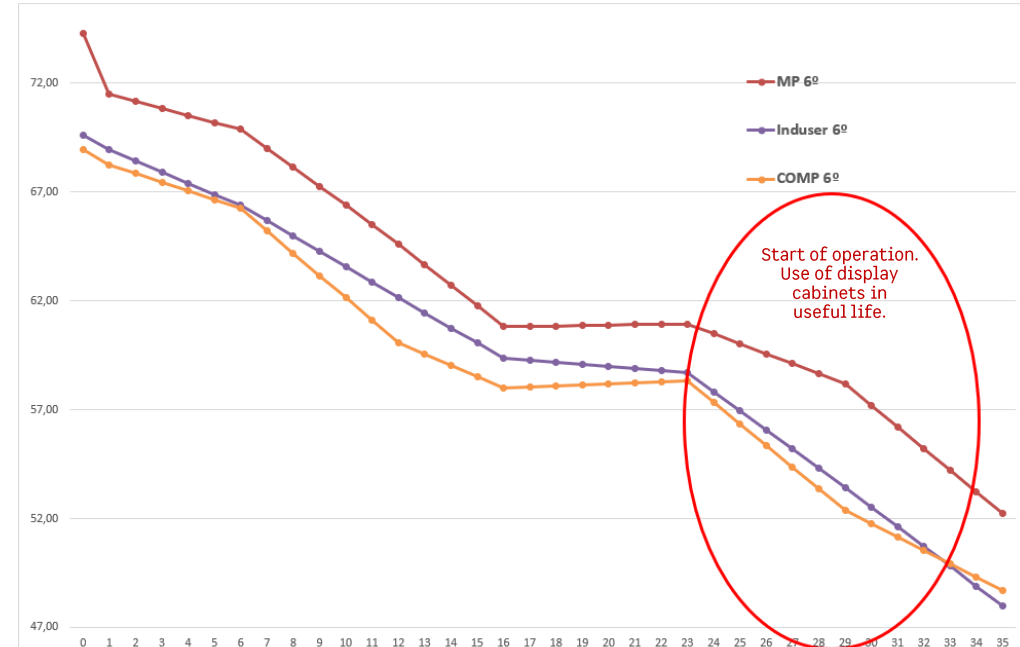
During a month, 45 measurements were taken in two different formats with a temperature of 2 degrees and 6 degrees. Once the readings were obtained, the average was taken and in this way, the following comparative table:

Comparison at temperature 2°



MP: Raw Material| COMP: Lineal Weigher| Induser: Associative Weigher.

Comparison at temperature 6°C



MP: Raw Material| COMP: Lineal Weigher| Induser: Associative Weigher.

6. Quality Research for packaged product in Induser's associative weigher.

The conclusion of the firmness test

- The firmness values are higher at a temperature of 2°C compared to a temperature of 6°C.
- In the weigher's comparison, similar firmness values are observed at both temperatures. The same occurs with the deviation of the values obtained for the 2 machines with respect to the values measured to the raw material without going through a machine. They maintain similarity throughout the curve.
- Finally, we can say that the firmness and consistency of the product in the INDUSER associative weigher is similar to the firmness and consistency that the product obtains by passing through a competitor's linear weigher. It is also considered a suitable product in terms of firmness values for its commercialization and consumption without penalty for softness in the 2 compared weighing systems.

INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multifformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

7. Our customers .

The best way to inspire confidence is to mention those who have trusted INDUSER's solutions in the past.

Withing Spain borders and abroad, each packaging line is strictly designer for the infrastructure of each client and the expected production capacity.



INDEX

1. The blueberries' journey through the automated packaging line.

2. “Shock absorber” System.

3. Multifformat System.

4. ECO friendly formats.

5. Weighing Solutions: Associative weigher Vs Lineal weigher.

6. Quality Research for packaged product in Induser's associative weigher.

7. Our customers .

8. Case Studies.

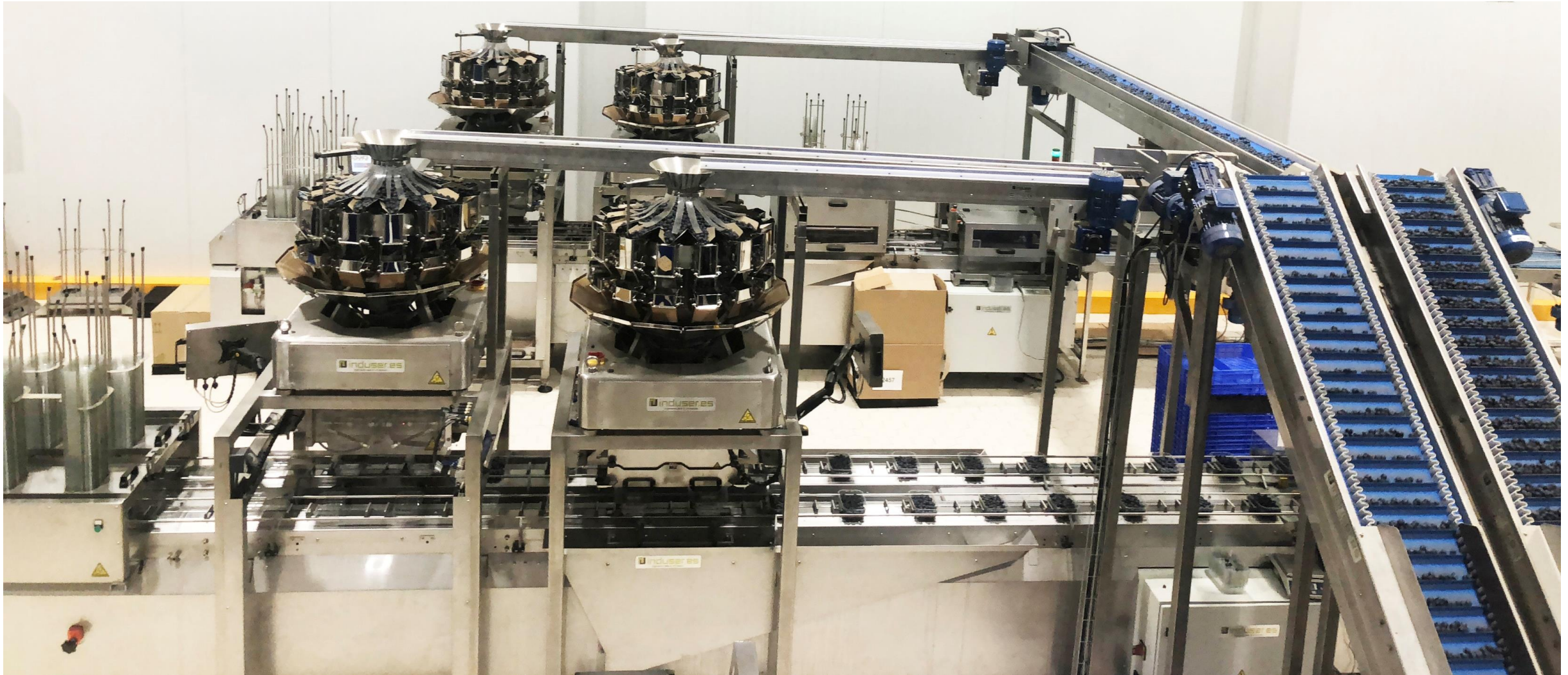
8. Case Studies.



Established in Huelva, Spain, just a few hours drive from our Factory in Almería, Onubafruit is a leading group in the logistics and delivery of fruit to more than forty countries.

- The solution we design for them included:
- Four circular associative weighers.
- Weighing Accuracy: +/- 1g,
- Production capacity: 30,000 packs/hour
- Adaptability in packaging formats (multiformat).
- Simple and fast change of containers on the production line.



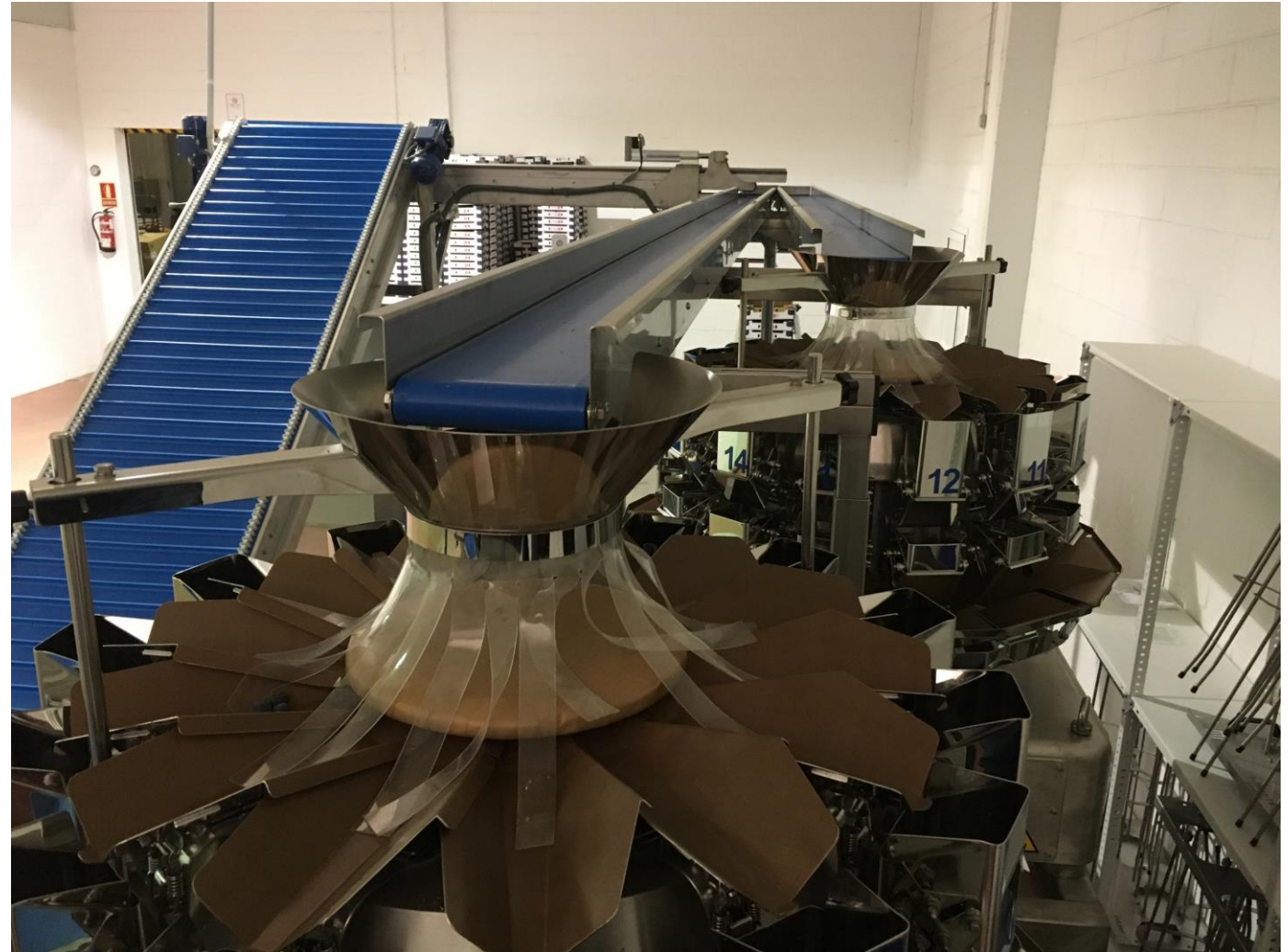


8. Case Studies.



The solution we design for them included:

- A high production automated line with product feeding by emptying conveyor + mechanical sorter + manual selection table.
- Production capacity: 130 packs/ minute.
- Multifformat system: several Sistema multifformat: various format of RPET cups with lid, clamshells, trays and buckets.
- Multi-format automated packaging dispenser.
- This line included a clamshells clipper system by pressure and a multi-labeling system integrating top, bottom and side labelers.
- In the final step, it had an automated palletizing of boxes.
- Fast format change, in less than a minute.





8. Case Studies.



The solution we design for them included:

- 2 high production automated lines designed to work with feeding from an electronic sorter to reject external defects and soft product.
- Production capacity: 3 Tn/hour
- Multifformat system: several Sistema multifformat: various format of RPET cups with lid, clamshells, trays and buckets.
- Multi-format automated packaging dispenser.
- This line included a clamshells clipper system by pressure and a multi-labeling system integrating top, bottom and side labelers.
- Metal detector.
- Fast format change, in less than a minute.







GRACIAS

THANK YOU

DANKE

MERCI

GRAZIE

DANK JE WEL

WWW.INDUSER.ES