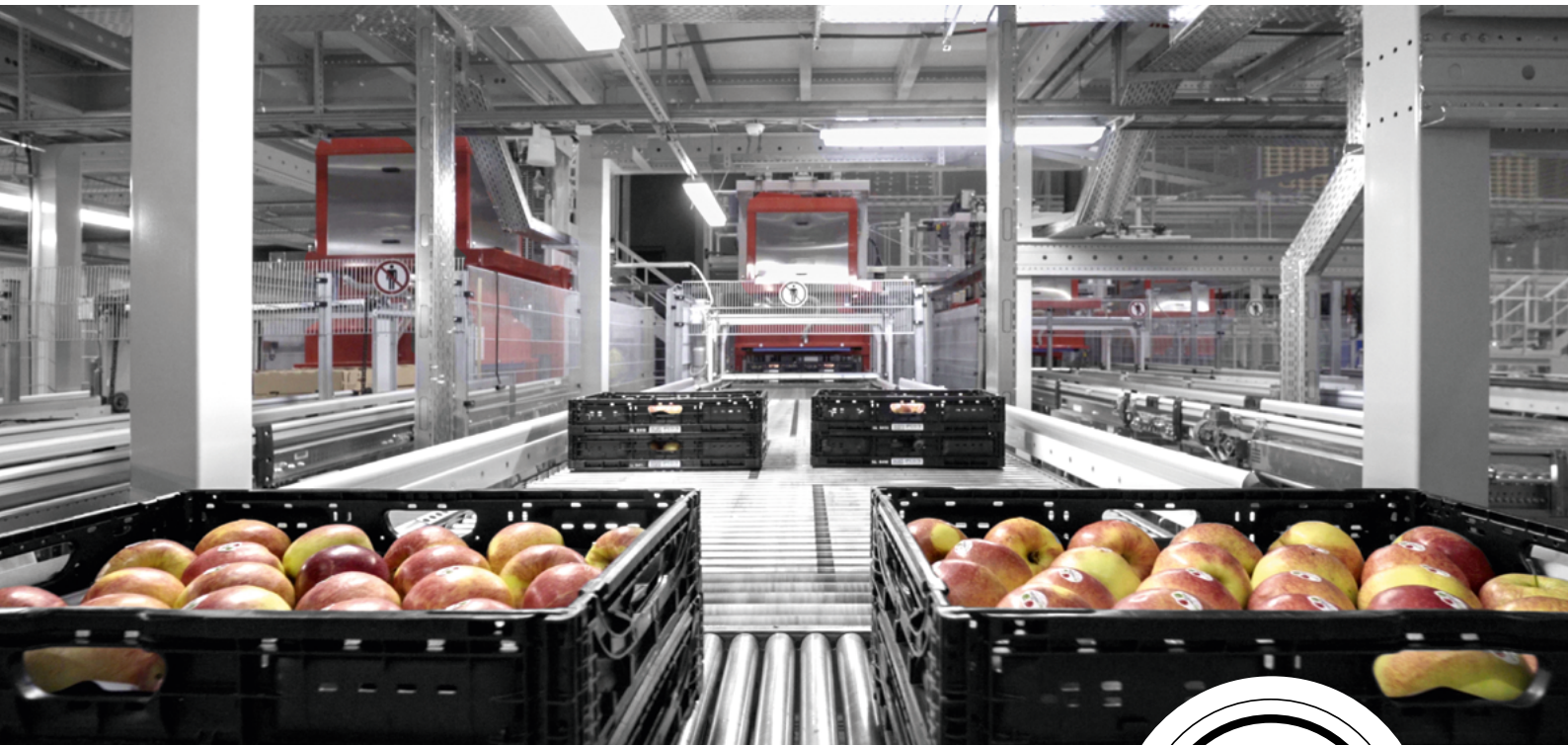


# The perfect choice for your automated processes



Standardized, stackable, sturdy and stable under all conditions: IFCO Reusable Plastic Containers (RPCs) increase efficiency in your warehouse.

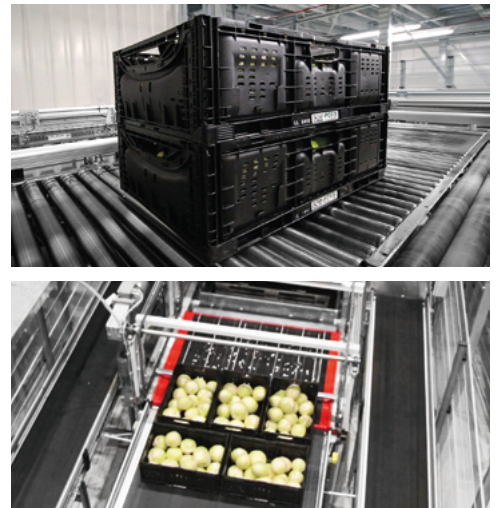


# IFCO is at the forefront of innovation that supports growers and retailers seeking to deliver fresher, healthier food to the world.

The right choice of packaging is critical in automated logistics centers for fresh produce. When growers pack fruit and vegetables in IFCO Reusable Plastic Containers (RPCs), it reduces handling during the entire supply chain, and facilitates automated processes in logistics centers.

As retailers turn to automation to make their supply chain more cost-effective, they can rely on our RPCs.

As a global market leader in reusable packaging, IFCO offers high levels of product compatibility and standardization. Our RPCs' compelling characteristics make them ideal for warehouse automation.

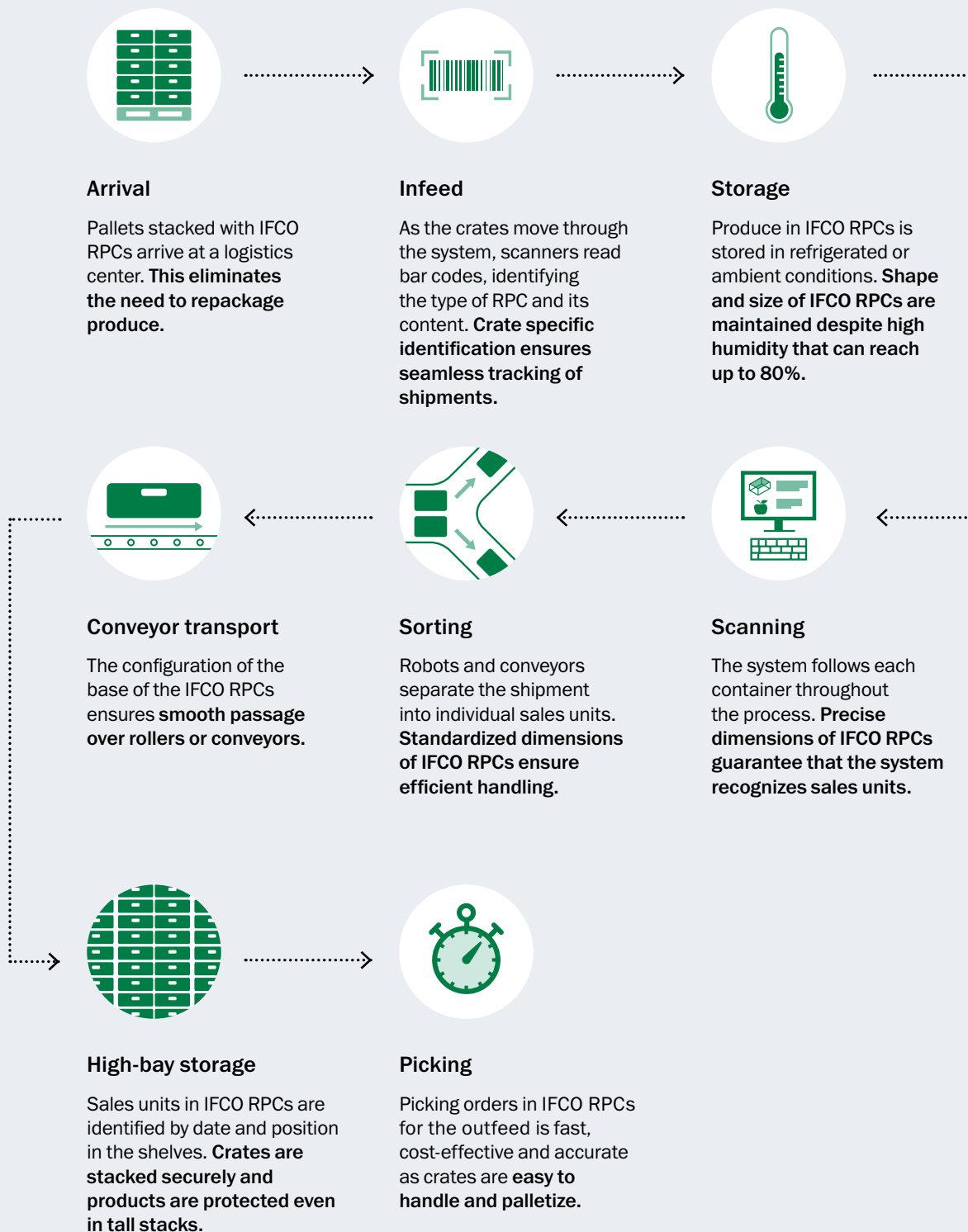


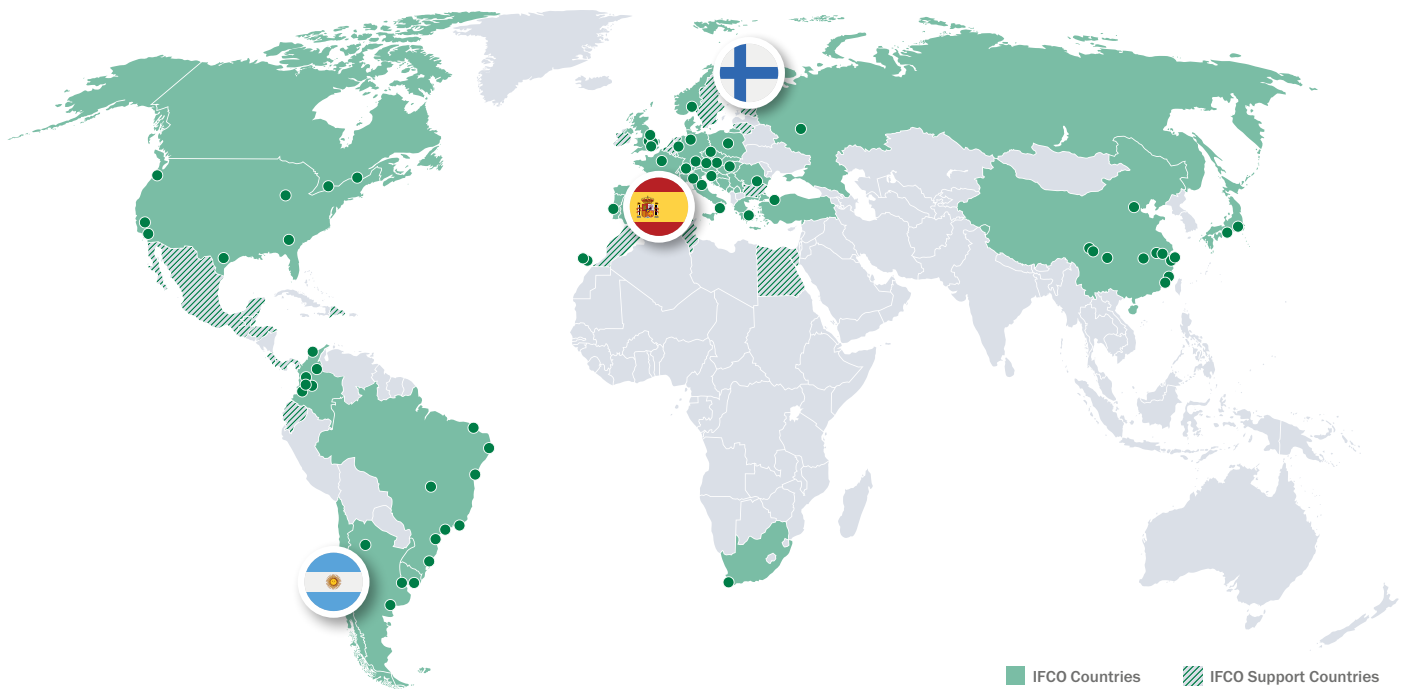
## Why IFCO RPCs are ideal for automated processes

- ✓ **Durable material**  
Withstands temperature and moisture extremes
- ✓ **Optimal ventilation**  
Efficient cooling and temperature regulation
- ✓ **Base configuration**  
Provides smooth passage on rollers or conveyors
- ✓ **Sturdy construction**  
Protects products in tall stacks
- ✓ **Standardized dimensions**  
Essential for scanning and recognition
- ✓ **Large range of models**  
Transports wide range of products
- ✓ **Securely stackable**  
Avoids tilting and slippage
- ✓ **Standardized footprint**  
Essential for high volume operations
- ✓ **Moisture-resistant**  
Maintains shape and size despite high humidity
- ✓ **High compatibility**  
Minimal deviation between product generations



## IFCO RPCs work perfectly at any stage of your automated system





### La Anónima General Pico, La Pampa, Argentina

One of Argentina's largest grocery retailers converted from single-use packaging to IFCOs Meat Lift Locks. La Anónima operates **159 grocery locations**, nine distribution centers and one transfer base in 80 cities throughout the Argentine territory.

The company opened a 200,000 sqm, highly automated meat packaging facility, and wanted to find a new packaging system to optimize its meat packing operation.

The facility processes **540 tons of beef and other meat cuts** annually. That includes more than 20,000 head of Angus steers per month and meat exports to more than half a dozen countries.

Since August 2018, IFCO supplies the retailer with 60,000 meat RPCs per month - or more than 720,000 crates per year.



### SOK Logistics Center operated by INEX Oy Sipoo, Finland

Inex Oy is a fully owned partner company of SOK Group, Finland's largest retailer.

Since 2017, it operates one of the world's first fully automated warehouses for fresh produce having nearly 80% automated processes for fruit and vegetables as well as bread. Some **21,000** different articles shuttle through the warehouse automation system.

This logistics center distributes almost 50% of all the groceries sold in Finland. Nearly one million IFCO RPCs carry fresh produce through the warehouse every month. That's about **14-15 million crates** per year. 60,000 IFCO RPCs per day are being sent to washing centers.

IFCO SYSTEMS and SOK cooperated closely during planning, construction, testing and launch in 2017.



### Sediasa Alimentación Near Madrid, Spain

Sediasa Alimentación is a company specialized in slicing, processing, packaging and distributing meat – primarily pork, beef lamb – as well as delicatessen meats and cheese. With a production capacity of **over 70 million kilos** per year, its objective is to give added value to the food supply chain, with packaging and formats adapted to the characteristics of each household.

Sediasa Alimentación started using IFCO RPCs in 2009 as the crates are moved easily across their automated processes and uses around eight million IFCO RPCs annually.

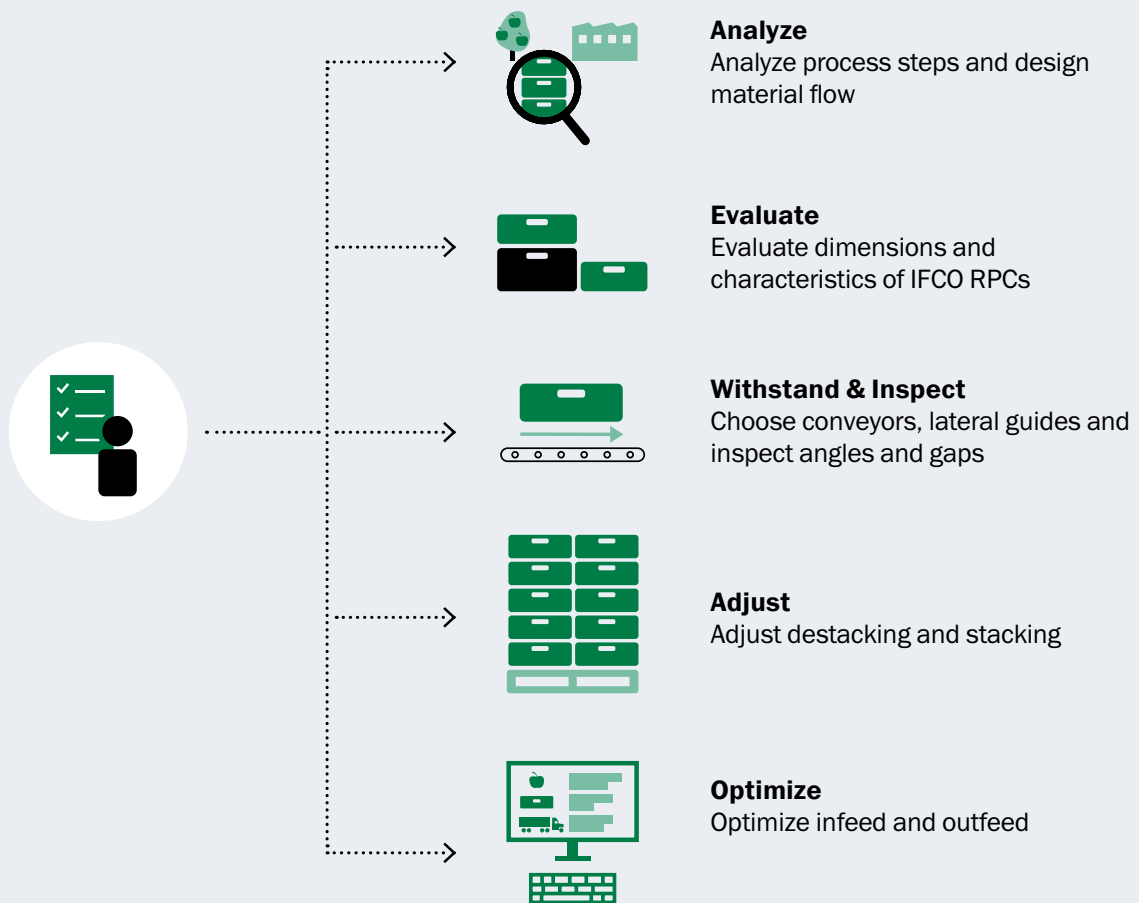
Easy handling, food protection and environmental aspects were reasons for Sediasa Alimentación to use IFCO RPCs. The company has **reduced waste** from single-use packaging **by 80%**.



## What to consider when designing warehouse automation suitable for RPCs.

By consulting our checklist, process engineers can design automated systems suitable for IFCO RPCs to ensure optimal performance.

### Testing IFCO RPCs



## How to ensure best performance of automated systems for IFCO RPCs:

<b>Roller conveyors</b>	<input type="checkbox"/> Do roll diameters and lengths accommodate IFCO RPCs fully across the whole stacking rim? <input type="checkbox"/> Do roll pitches and orientation ensure trouble-free transport within the system? <input type="checkbox"/> Is there sufficient gradient for nondriven roller conveyors so that crates do not stall? <input type="checkbox"/> Are transfer gaps bridged sufficiently for trouble-free operation?
<b>Belt / modular belt conveyor</b>	<input type="checkbox"/> Are material and surface compatible with IFCO RPCs? <input type="checkbox"/> Are material and surface compatible with planned transport loads? <input type="checkbox"/> Do belt widths reflect the RPC dimensions? <input type="checkbox"/> Do combinations of narrow belts guarantee safe transport? <input type="checkbox"/> Is the friction coefficient appropriate for IFCO RPCs? <input type="checkbox"/> Do inclined belts have enough friction aids to prevent slipping of RPCs? <input type="checkbox"/> Are transfer gaps bridged sufficiently for trouble-free operation?
<b>Curves</b>	<input type="checkbox"/> Before a curve, has dynamic pressure from following RPCs been reduced with stoppers? <input type="checkbox"/> Is the track wider at curves? <input type="checkbox"/> Have junction gaps been bridged sufficiently to ensure trouble-free operation? <input type="checkbox"/> Are the guide rails in curves correctly spaced to avoid crates jamming under them?
<b>Lateral guide rails</b>	<input type="checkbox"/> Have lateral guide rails that are appropriate for IFCO RPC characteristics been selected? <input type="checkbox"/> Do lateral guides keep IFCO RPCs on track? <input type="checkbox"/> Have the height and width been adjusted to match the dimensions of the RPCs? <input type="checkbox"/> Have any potential areas that could jam the RPCs been adjusted?
<b>Stacking / destacking</b>	<input type="checkbox"/> Do clamping jaws also grip the base plate of the RPC and not just the sides? <input type="checkbox"/> Does the set up ensure error free vertical nesting of IFCO RPCs? <input type="checkbox"/> Are lateral forces on RPCs avoided that could inadvertently open the short side walls? <input type="checkbox"/> Has it been considered that RPCs only slide on or off in a longitudinal direction?
<b>Infeed / outfeed</b>	<input type="checkbox"/> Do lifting beams/belts/chains move the conveyed material safely? <input type="checkbox"/> Are angled rollers positioned correctly to transfer RPCs safely? <input type="checkbox"/> Do swivel castors support the base of the RPC safely and allow RPCs free movement? <input type="checkbox"/> Do changes of direction take place in controlled, uniform movements? <input type="checkbox"/> Are impacts on the short side walls minimized to avoid unintentional opening of the walls? <input type="checkbox"/> FIFO gravity systems must consider that the crate base has a stacking rim!
<b>Traceability</b>	<input type="checkbox"/> Are the code readers placed to suit the RPCs? <input type="checkbox"/> GRAI-code is on the 600mm side of the large RPC <input type="checkbox"/> GRAI-code is on the 400mm side of the half size RPC

**IFCO is the leading global provider of reusable packaging solutions for fresh foods, serving customers in 50+ countries.**

IFCO operates a pool of over 314 million Reusable Plastic Containers (RPCs) globally, which are used for over 1.7 billion shipments of fresh fruits and vegetables, meat, poultry, seafood, eggs, bread, and other items from suppliers to grocery retailers every year. IFCO RPCs

ensure a better fresh food supply chain by protecting freshness and quality and lowering costs, food waste and environmental impact compared to single-use packaging.

For more information, visit [IFCO.com](https://www.ifco.com).

customers in  
**50+**  
countries of  
operation

**66m**  
RPC production capacity

**89**  
RPC wash centers

**314m**  
RPCs in circulation

**1.7 bn**  
shipments per year

**1,100**  
staff

**70+**  
RPC models

For questions regarding RPCs and automation interface,  
please consult IFCO Technical Support. Always ask for RPC  
samples to support the development of the automation.