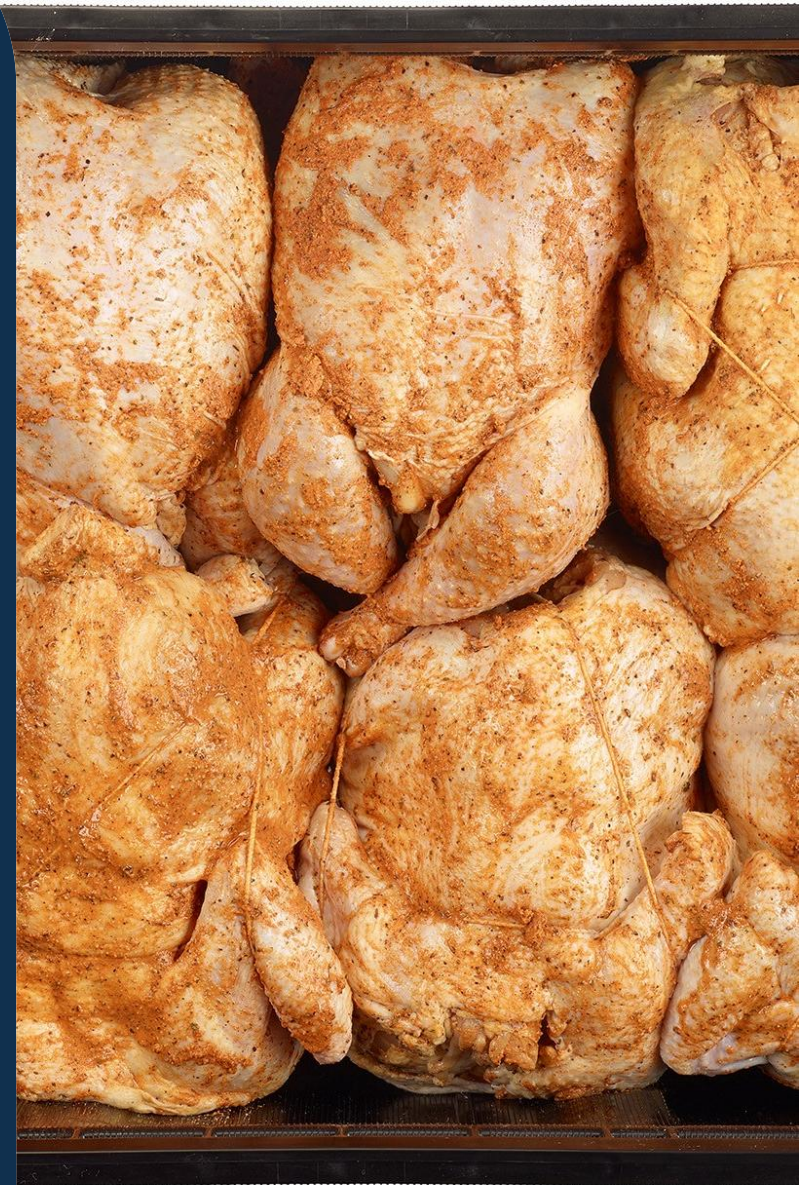




Food Waste Reduction

Tosca Reusable Solutions



Food Waste: Quality Reduction Damage Loss

Food is costly to produce and has an associated environmental footprint. Meat and seafood can have a significantly higher footprint than eggs or produce, but they all have a footprint and a cost.



Replacing lost food doubles the cost AND the environmental impact!

**Reusable Packaging
minimizes damage =
saves cost and footprint**

Reduce your food loss with RPCs and Bins

Minimizing damage saves not only money and footprint but reduces labor requirements (repacking damaged items).



Food Quality

With its closed walls and limited ventilation, corrugated prevents the necessary airflow for food to reach required temperature quickly.

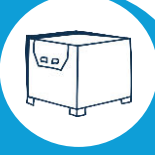
Corrugated boxes, with solid walls and poor airflow, require roughly 20 hours to reach optimal cooling temperatures. The ventilated design of **Tosca's RPCs cuts that time in half to 10 hours.**



Food Damage

Research shows corrugated loses up to 40% of its structural integrity when exposed to moisture leading to collapse and damage of contained goods.

According to a benchmark study published in Poultry Science, at every step: 11% during initial handling, another 1.5-2.7% during grading and packing, and then 0.2-2.7% more during transportation.



Product Recovery

Recovering product from a container such as an intermediate bulk container or tote, or even a super sac can be hard. It is estimated that 5% of liquids and a little less of solid materials remain within such containers.

With our trademarked squeeze technology customers are able to recover up to 5% more of the contained product from the bulk bin liner system. Your products is where the money lies – the more you recover the more you save/earn. 5% cost improvement is worth it!

[Read more about food loss reduction in our Whitepaper on Turnover, tariffs and trend-shifts.](#)

Reduce your food damage with RPTs

Damage to packaging provides the potential for the contents to be damaged thus resulting in loss. Less robust packaging can be pierced, squashed, or blown out all of which can affect the contained goods.

[Read more about food loss reduction in our Whitepaper on Turnover, tariffs and trend-shifts.](#)

Repacking pallets eliminated per load saving

10 mins / load

100%

Providing data on humidity, temperature and shock*



Damaged Packaging

With its flimsy structure which is affected by moisture and weight of subsequent layers corrugated boxes are more likely to lose integrity which can affect the contents resulting in loss.

Research shows corrugated loses up to 40% of its structural integrity when exposed to moisture, exactly the conditions found in products needing to be cooled.



Digital Tracking

The ability to attach IoT systems capable of transmitting information on humidity, temperature and shock to corrugated boxes is limited.

A truck carrying assets enabled with active tracking features can log humidity levels, temperature, and trip duration. **If dwell time exceeds the product's limits, the provider can receive alerts, which allow them to intervene and prevent lost assets.**

Rigidity of containers provides greater protection to contents

Ventilated design enables faster, more even cooling allowing for products to be quicker to shelf

Digital trackers provide details on temperature, humidity and shock enabling stock rotation to be quality vs date based

Less damage to packaging = less labor and time to repack at DCs

Benefits of RTPs On Total Cost of Packaging

Food loss is an element of the TCOP which is gaining notice.

Our 2030 Goals

Circular Products

- Products purposefully designed to be 100% circular; comply with relevant packaging and food related regulations; **reduce food loss, damage and shrink**; support automated handling systems; reduce labor needs and minimize transportation needs



Learn more about Food Waste Reduction



How can foldable IBCs help solve your supply chain challenges?



The growing tragedy of food waste



Reducing food waste (& costs) with reusable plastic containers



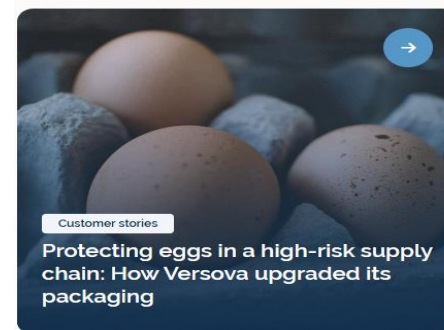
Case Study: Protection and efficiency with the egg RPC



8 reasons why RPCs outmatch corrugated cardboard boxes



From fragile to future-proof: Prairie Star Farms' smart packaging upgrade



Protecting your products



A better way to protect your produce

Learn more about Food Waste Reduction



Case Study: Tosca optimizes product visibility, boosting sales of German and Belgian retailers



Pilot Program Q&A



Walmart's gigaton goal: How Tosca RPCs make a sustainable difference



The hidden costs of corrugated boxes for the poultry industry



Corrugated is crushing your supply chain efficiency. Are reusables the solution?



Why packaging is your first line of defense in preventing costly recalls



How to reduce risks and boost food safety in the meat industry



Efficiently store and transport bulk ingredients with food-grade IBC totes

Learn more about Food Waste Reduction



Less shrink, more savings:
How folding plastic crates
improve your bottom line



Protecting prepared food: How
reusable plastic containers
solve an ongoing problem



Protecting the produce: How
reusable plastic containers solve
an ongoing problem



Protecting meat: How
reusable plastic containers
solve an ongoing problem



Protecting the poultry: How reusable
plastic containers solve an ongoing
problem



Labor reality Check