

CASE STUDY - Agricultural Machinery

Replacing Steel Gitterboxes with the GitterPak® in Long-Distance Loops with Suppliers

A European agricultural machinery manufacturer of mowers, tractors and other harvesting machines formerly used gitterboxes to transport machinery components from suppliers into their own facilities.



PACKAGING CHALLENGE

The machinery components come from a large supplier network all over Europe, leading to long transport distances. The agricultural machinery manufacturer encountered several challenges with their existing packaging:

- High weight of metal boxes
- Rust, large amount of bent / damaged boxes
- High transport costs on long haul return transports

The manufacturer was looking for a new solution that solved these challenges while seamlessly interfacing with their existing supply chain and automation systems on the assembly line and in the automated warehouse.

PACKAGING SOLUTION

The manufacturer recognised the advantages of converting to a collapsible plastic container. With a weight capacity of **900 kg** and a **standard European footprint**, the ORBIS GitterPak® interfaced with the customer's conveyor and high-bay racking systems. More advantages included:

- **Light** weight solution (60 kg vs. 100 kg)
- **Collapsible** design in return logistics (264 vs. 78 boxes)
- Use of **recycled** material, buyback option at end of life

The project started on a loop with one supplier. As the project expanded and savings were unlocked, more and more suppliers were successively added to the loop.

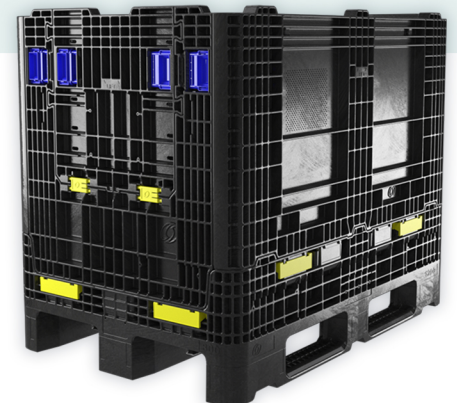
BENEFITS & RESULTS

- 🌱 Supporting sustainability targets by **reducing CO₂ emissions** through use of recycled material in container
- ⬇️ Collapsible design **reduces freight costs** and emissions in reverse logistics (only one truck instead of three)
- 🔧 **Easy and quick to repair** design allows customer to save on replenishments and repair costs
- 💰 Additional cost advantages through **buyback option** for obsolete containers

TYPICAL APPLICATIONS IN AGRICULTURAL MACHINERY

The GitterPak® is a steel box replacement for heavy-duty parts and long loops. Potential products to be transported include:

- Body parts
- Hydraulic parts
- White parts
- Bulk material
- ...



ORBIS GitterPak®
1200 x 800 x 960 mm