

## Windscreen Protection in the Automotive Industry

The client engaged with us to develop a tailored AIR|SHIELD™ inflatable protective system, creating an on-demand inflatable barrier around each windscreen.

### The Challenge

The client supplies **windscreens and panoramic glass** to multiple aftermarket retailers and Car Dealers across the Globe. Their existing packaging system involved **corrugated cartons with foam buffers and corner guards**, which led to:

- **High breakage rates** during transit due to insufficient cushioning
- Bulky packaging and **high transport costs**
- Manual handling challenges and inconsistent pack performance
- Difficulty scaling for different glass sizes and curvatures



## Our Solution

The client engaged with us to develop a tailored **AIR|SHIELD™ inflatable protective system**, creating an on-demand inflatable barrier around each windscreen.

### AIR|SHIELD™ Key Features for Windscreens:

- **Custom-fit inflatable wraps and edge buffers** for varied windscreen sizes
- On-demand inflation at packing stations to reduce storage and waste
- Designed to form a **rigid air-cushioned shell**, absorbing shock and vibration
- Flexible enough to accommodate both **flat and curved glass**
- Integration with standard outer cartons or custom crates

KPI	Pre-AIR SHIELD	Post-AIR SHIELD
Transit Breakage Rate	4.10%	0.40%
Avg. Packaging Time (per unit)	6 mins	3.5 mins
Storage Footprint (protective packs)	10 Pallets	2 Pallets
Pack Material Weight per unit	2.8kg	0.9kg
Recyclability of Materials	55%	70%

*"This has been a transformative shift for us. We've reduced glass damage dramatically while freeing up space and reducing packaging waste. Our warehouse team love the simplicity, and AIR|SHIELD™ gave us a flexible packaging model for our growing product range."*

### Logistics Manager

EU Automotive Aftersales Division