

# Automotive Manufacturing: ShockWatch RFID Case Study





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**Industry:** Automotive Manufacturing

**Application:** Automotive manufacturers move a large number of delicate parts through their supply chain such as headlights, instrument panels, glass, calibrated equipment, brazed radiators, etc.

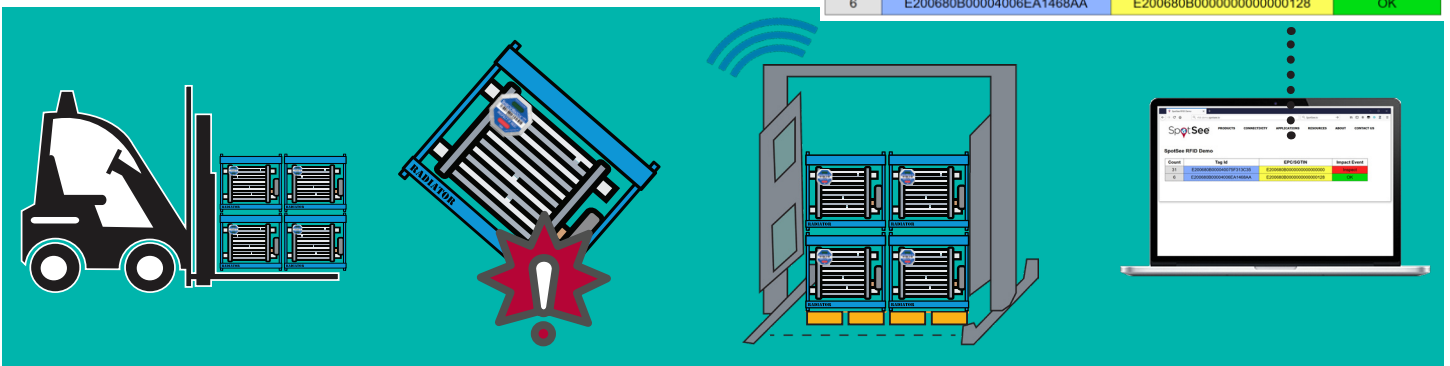
**Challenge:** A major automotive manufacturer was experiencing a high rate of internal supply chain damage to parts moving from plant to plant and within their warehouses. The company needed a cost-effective solution that could track individual product damage and alert supply chain managers of the damage before the product moves further along in the supply chain.



**Solution:** The automotive manufacturer chose to implement a [ShockWatch RFID impact indicator program](#). Their process is shown below:

- The auto company already had standard UHF RFID readers positioned at each dock door. To complete their setup, all they needed to do was configure their readers to read the “impact event” that could be signaled from an activated ShockWatch RFID unit. (ShockWatch RFID can replace existing UHF RFID tags used for inventory control).

Count	Tag Id	EPC/SGTIN	Impact Event
31	E200680B000040075F313C35	E200680B0000000000000000	Inspect
6	E200680B00004006EA1468AA	E200680B00000000000000128	OK



1

ShockWatch RFID is affixed to an asset

2

If the asset has an impact exceeding the tags threshold, ShockWatch RFID will “activate”

3

ShockWatch RFID is scanned by a standard UHF reader

4

Asset condition is automatically entered into your ERP

**Summary:** On top of quickly identifying damaged goods without a visual inspection, **the company noticed a shift in behavior** from supply chain workers, because ShockWatch RFID acted as a visual deterrent for unacceptable handling and assigned accountability for supply chain damage.

### Extend the power of your RFID program by monitoring for damage

Every company wants to improve their supply chain processes. RFID technology aided companies in improving inventory control. The [ShockWatch RFID impact indicator](#) allows companies to leverage the inventory tracking benefits of RFID and the benefits of an impact monitoring program. With ShockWatch RFID impact indicators, the need for visual inspections during the receiving process is greatly reduced. When shipments are scanned, the receiver will know if there has been a potentially damaging impact. If the ShockWatch RFID has activated, inventory can be isolated for further inspection. If there has been no impact, the shipment can be moved into saleable inventory.



ShockWatch RFID impact indicators deliver all the benefits of an impact monitoring program – reduce damage from mishandling, refine supply chain processes so mishandling can be prevented, drive down costs – plus an electronic record of the information. Armed with data, it is possible to track down trouble spots in the supply chain and implement process changes to improve outcomes.

ShockWatch RFID impact indicators are single use devices that are tamperproof, field armable, turn red when an impact occurs and can be scanned with a standard UHF reader. Passive RFID technology is employed in the indicator so there is never a battery life issue to consider.



#### Benefits:

- Acts as a visual deterrent to mishandling
- Expands the utility of RFID with damage monitoring
- Reduces receiving times and isolates items that need inspection
- Reduces mishandling through awareness
- Helps identify trouble spots in the supply chain from production to transportation to storage

***Talk to your part suppliers about starting a ShockWatch RFID program:  
ShockWatch Impact Indicators are known to reduce supply chain damage by up to 60%***