

PACKAGING ISSUE RESOLUTION



ROOT CAUSE
ANALYSIS

Shock, Vibration or
Compression Exposure?

Temperature & Humidity
Conditions?

Handling
Considerations?

DISTRIBUTION &
PACKAGE TESTING
SERVICES

Distribution & Package Testing Services

Transit Prediction & Validation
Test Method Selection
Custom Protocol Development
Root Cause Analysis

Lightweighting & Sustainability
Damage Prevention
Cost Avoidance
Consulting



SOLVING A DAMAGE ISSUE BY ISOLATING THE TRUE ROOT CAUSE

The supply chain is a complex environment with many variables. Standard distribution testing is aimed to predict the effects of shipping packaged products through various generalized lanes. Preproduction validation is the greatest use of this predictive tool but it is not feasible to account for every “what if” scenario. Even with a comprehensive validation program, packaging systems will pass validation tests and perform poorly when shipped.

Smithers Pira has developed a service offering to efficiently resolve shipping issues that were not screened with validation testing in the development stage. The concept leverages known shipping results (“the issue”) to calibrate a test method that can be used to challenge future solution options. The offering is based on the concept that you must know what is causing your problem before you try to solve it.



Industries Served

Food & Beverage Products
Automotive / Aerospace
Consumer Goods
Medical, Pharmaceutical &
Healthcare Products
Electronics
Personal Care Products

The Tools to Properly Assess Your Packaging

From product and packaging validation to troubleshooting and regulatory compliance, Smithers Pira offers the laboratory tools needed to fully assess the performance of your packaging.



Climatic
Conditioning



Shock



Drop & Impact



Compression



Vibration



Reduced Pressure -
Vacuum



Testing as a Tool

Smithers Pira leverages testing as a tool versus simply offering a test. The resolution of the issue is at the center of our activities and is the driving force for everything we do. Our fully accredited ISO 17025 laboratories has the tools needed to conduct the following test procedures:

- Vibration
- Drop, Impact and Load Stability
- Thermal and Climatic
- Compression
- Shock and Fragility
- Post Integrity for Medical Packaging
- Product Durability
- Environmental

Expert Support

Our team of technical experts actively engages with all stakeholders to understand and define issues so efficient and effective solutions can be deployed. Smithers Pira offers guidance through:

- 50+ years of technical experience
- ISO 17025 accredited and ISTA certified facilities
- Knowledge of a broad range of global shipping environments
- Expertise in a variety of industries

Methodology

Our goal is to develop a series of controlled laboratory test methods that replicate known shipping issues then leverage those to assess possible solutions. Smithers Pira does this by:

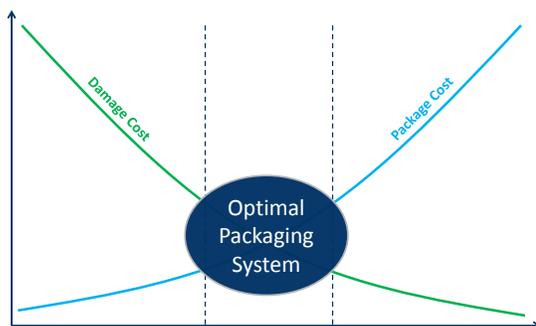
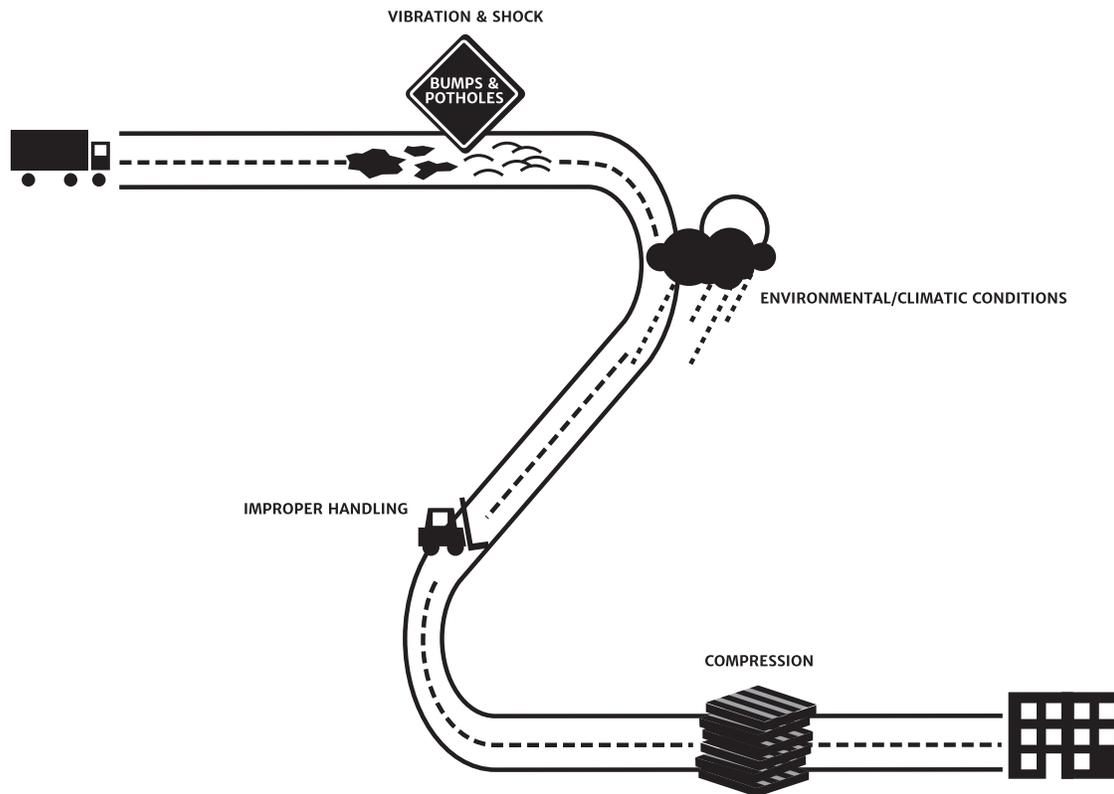
- Defining the issue
- Identifying the shipping hazard in the supply chain
- Leveraging controlled methods while focusing on replicating the hazard
- Reproducing the issue with controlled methods
- Offering recommendations for resolution
- Gauging the level of improvement with controlled methods



DISTRIBUTION & PACKAGE TESTING CAPABILITIES

ROOT CAUSE ANALYSIS

When damage occurs, pinpointing the source can be a tricky task . . .



As your package travels through the supply chain, there are many variables to consider. Smithers Pira helps you to find the perfect mix of protection and cost to ensure your product gets where it needs to be, in the proper condition.

About Smithers

For more than 50 years, Smithers Pira has provided package testing solutions to help reduce shipment damage, troubleshoot packaging and supply chain issues, identify cost reduction opportunities, meet sustainability requirements and more. Our experts offer extensive lab-based package testing and transit simulation testing, field-based investigative capabilities and consultative support.



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Contact us today for a consultation to learn how we can help accelerate your business.

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