

ExpandOSTM

Smarter Packaging.

Better Protection

Better Price

and it's GREEN!

Our Company

FoldedPak Inc. is a packaging solutions manufacturer, headquartered in Denver, Colorado. The company was founded in 2003 with support from several long time UPS managers to develop and distribute the patented ExpandOS® internal packaging solution. ExpandOS® is a high performance, environmentally responsible product that is the most economical protective packaging technology in the marketplace.

- We are establishing ExpandOS products as the new standard in protective packing by:
 - Replacing Foam in Place and Air Bubble Packaging for medium to heavy density fragile items with our MD and HD products.
 - Making ExpandOS the first choice for light fragile items and dunnage replacing other packing materials such as Wadded Kraft or Packing Peanuts with our VF product.

ExpandOS™

What is ExpandOS?

ExpandOS is the most protective internal packaging alternative on the market. ExpandOS® is a patented, high performance universal packaging solution with no similar competing technologies in the market. ExpandOS stands for Expand **On Site**.



Single ExpandOS

1.25" x 1.25" x 1.50"

Approximate dimensions

ExpandOS Performance

- Superior cushioning, blocking and bracing properties
- High flow product – fast and easy to use – saves labor
- Consistent, reliable and fixed volume performance without need for skilled labor
- Expand-on-site material (expands at a ratio of 25:1 for packing)
- Documented performance through University and independent lab testing

ExpandOS Sustainability

- Made from Sustainable Forestry Initiative (SFI) certified fiber
 - See www.SFIprogram.org to learn more about SFI certification
- 100% Recyclable
- Biodegradable



Certified Fiber Sourcing

www.sfiprogram.org



The ExpandOS Product Line

We offer three grades of ExpandOS, with each grade tailored to the different requirements of different packaging applications.

ExpandOS VF – Light Duty

- Void fill grade product
- Some protective properties but generally used as a dunnage solution
- Fast, fixed volume, top fill solution

ExpandOS MD – Medium Duty*

- Our core protective product, for use in most applications where damage protection is required
- Replaces foam, air bubble packaging and other high protection solutions
- * Sold at The Home Depot in retail bags in the moving and storage section

ExpandOS HD – Heavy Duty

- Designed for high density items in protective applications (i.e. – motors or heavy parts shipped with other fragile items).



Branded ExpandOS

ExpandOS™

Using ExpandOS

- **For high volume users**, ExpandOS is shipped unexpanded, on pallets
- Each pallet contains 40 bundles and makes 1,000 cubic feet of fill
- Paper is expanded On Site – using the patented Expander
- ExpandOS is formed by the Expander on demand at the point of use



ExpandOS Bundle
40 bundles per pallet

Expander Features

- Simple, reliable and adjustable ergonomic design
- Portable - readily fits existing packaging environments
- Low energy consumption (185 watts) – runs on standard 110 v outlet
- Operators can be trained and ready in minutes
- Simple, proven gravity dispensing design
- Operating capacity for 700 cubic feet per shift



Expander Unit
Approx. 3'W x 3'D x 6' H

ExpandOS Performance Testing

- ExpandOS has undergone extensive performance testing at Cal Poly, Colorado State and the University of Colorado
- We have a database of ISTA tests performed for a variety of packaging situations
- Our cushion curves provide effective guidelines to ensure proper protection for your package
- We have tested a variety of product attributes in lab and live settings including:
 - Blocking and Bracing
 - Product Migration
 - Vibration Settling
 - Compressive Set
 - Cushioning Curves
 - Compressive Creep
 - Flowability



Vibration Settling Testing

Independent Testing completed by
UN, DOT & ISTA CERTIFIED LABORATORIES

Why Use ExpandOS?

- **Smarter Protection:** ExpandOS is the best solution for light to medium-weight applications, mixed products, and individual items with a wide range of fragility. ExpandOS provides superior cushioning, blocking and bracing for your package on par with the best protection available.
- **Total Packaging Cost Savings:** ExpandOS generates labor, damage, storage and often times, packaging material \$ savings. Customers also eliminate applicable dump fees from municipalities.
- **Universal Solution:** ExpandOS effectively replaces most types of internal packaging.
- **Easy to Use:** ExpandOS does not require extensive training and is created on demand.
- **Predictable Performance:** The tight fill and fixed volume nature of ExpandOS ensures that each package is well protected and use is consistent.
- **Sustainable:** ExpandOS® is SFI Certified, is recyclable, biodegradable and marked with environmentally responsible inks.
- **Image:** Companies are increasingly adopting sustainable and eco-friendly business practices, finding that such practices contribute to profitability and build loyalty among customers, employees, and other partners.
- **Custom Branding:** ExpandOS can be printed with a company logo on each triangle.

ExpandOS Use in Industrial Applications

- ExpandOS is being used in both high volume pick/pack facilities and lower volume facilities that make/ship specialty products
- Total packaging cost (packaging+ labor +damage costs) are the driving factor in using ExpandOS.
- ExpandOS always performs at the same or lower total cost in most applications
- The green/sustainable pedigree of the product can be another decision factor
- ExpandOS is most competitive in high damage (or damage risk), higher value, unusual shaped (or multi item box) situations.
- Once a Customer starts with ExpandOS, they remain a Customer – Customer retention is 100% over the last two years.

ExpandOS - Proven Applications

Ceramics



High Tech Ceramics



Dinnerware

Lighting



Light Fixtures

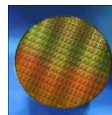


Auto Headlamps

Precision Parts Electronics



Electronic Pump



Semiconductor Wafers

Housewares Glassware



Glassware



Restaurant Supplies

Medical Dental



Vet Supplies

Getting Started With ExpandOS

ExpandOS implementation has been completed with several different approaches:

- **2-3 Key Initial Products:** Customer selects 2-3 key products with high volumes to start with ExpandOS – typically targets problem areas in the warehouse or pack out operation.
- **High Damage Approach:** Customer identifies and can operationally separate high damage items for conversion to ExpandOS packaging.
- **Full Implementation:** After on site review of operational characteristics and layouts – full implementation plan is put in place using both VF and protective ExpandOS (MD or HD).

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