Because We Know How Demanding You Are.





UNIFUSE: A Bird Dog Distributors Company 204 Little Six Lane Clintwood, VA 24228 P: 276.926.6464 www.unifuse.com info@unifuse.com



Stronger. Better. Smarter.

That's What Makes Unifuse® the Leader in Molded Plastic Products.

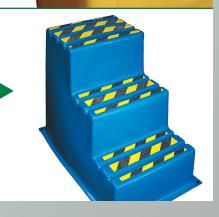
VIM at Work

The VIM vibrational microlamination process utilizes a single surface mold, carefully controlled heat and vibration to fuse powdered thermoplastic resin into a molded shape, providing uniform thickness without introducing inherent stress that degrades the strength of the basic polymer. Our technology allows us to make large or custom parts with low tooling costs.

Contrast this to traditional methods that create inherent weak points due to stretching or uneven cooling.



Unifuse non-skid, self-draining step-stands have the highest weight capacities, are lightweight and nestable, and available in 7 convenient models. No assembly is required.



Unifuse (VIM) Molding Compared to Other Thermoplastic Processes

	VIM	Injection	Extrusion	Thermo- forming	Blow Molding	Rotational Molding
Mold Cost	LOW	High	Medium	Medium	High	Medium
Melt Plastic	NO	Yes	Yes	No	Yes	No
Pressure	LOW	High	High	Vacuum	High	Low
Stress Free	YES	No	No	No	No	Yes
Inserts/ Additives	YES	Some	No	No	No	Yes

Vibrational Molding (VIM) Makes Unifuse Plastics Nearly Indestructible

Thanks to our *patented* molding technology, heavy-duty, industrial-grade Unifuse containers outperform and outlast other products available today. The nature of the VIM process enables a range of composites to be made by laminating materials such as Kevlar, glass or carbon fiber.

Because the VIM process does not utilize high pressure, molds are lightweight and much less expensive than those required for injection molding. Wall thickness can be uniform or varied, even on the same tooling, with excellent part-to-part uniformity.

Unifuse products:

- Combine the lowest tooling cost with the highest quality product
- Are weather-proof and chemical-proof
- Won't crack or break in use even in cold weather
- Have been field-tested for over 20 years without failure

Our unique process enables us to be highly responsive, providing prototypes, modification and production with short lead times.

Our low-cost tooling, the ability to "modify on the fly," the promise that we'll find the perfect solution and the industrial durability of our polyethylene custom products makes Unifuse the best value. We eliminate many of the traditional obstacles to designing plastic products for industrial use.

- Optimized tooling and design
- Low-cost prototypes
- Easy tool modification for design changes
- Made in the USA

"An unusual... process, based on simple molding principles, removes virtually all of the conventional limitations."

 Donald R. Dreger, Staff Editor Machine Design





Products for Any Industry

Unifuse manufactures hundreds of polyethylene products including containers, totes, bulk carts and tubs, mobile storage bins, plastic dollies and dolly lids, floor trucks, step stands, elevated ergonomic trucks, trash carts, medical waste carts, and returnable and reusable industrial packaging. Our ergonomically designed products reduce repetitive stress and workplace injuries. Unifuse products outperform any other manufacturer's products, beyond compare.

Because of the flexibility of our tooling process and the strength of our products, Unifuse can create exactly the right product for virtually any application. We specialize in custom solutions offering low-cost tooling, short runs and quick turnaround.



Unifuse Helps Protect Your Products – and the Environment

Stronger, longer-lasting Unifuse containers don't have to be replaced as often, cutting back on the waste stream and reducing pressure on landfills. When you incorporate our reusable transport and industrial packaging, you can lower your costs and virtually eliminate waste.

- Our polyethylene is 100% recyclable
- VIM requires much less energy than conventional molding

Our Product Lines

Material Handling Equipment

Unifuse has the solution for all your bulk handling requirements.

- Carts, containers and bins
- Any size, any shape
- · Industrial strength, heavy-duty, long lasting; beyond commercial grade

Food Service Equipment

Turn to us for superior, high-duty ingredient bins, totes, carts, and trays.

- FDA/USDA grade resin and colors
- Designed to be steam cleaned
- · Applications for large-scale, bulk production facilities

Health and Hospital Equipment

We manufacture high duty polyethylene products for hospital, healthcare, and bio-waste generators.

- · Medical waste carts, totes, dollies and floor trucks
- 30 years of service to top national chains and hospitals
- · Space efficient and stackable; designed for easy maneuverability

Custom Equipment

Unifuse is the leading provider to automotive and aerospace manufacturers for the protection of high-value parts. Our process makes even "impossible" designs possible.

- · Low-cost tooling and quick turnaround
- Unrivaled ability to modify on-the-fly
- · Tier-one provider

"If you have a choice of methods, vibrational molding will probably beat the other process's economics and lead times... VIM has established credibility with customers such as Pratt & Whitney, General Electric and IBM."

- Matthew H. Naitove Plastics Technology



"Besides no inherent stress, benefits of the [Unifuse] molding process are that large parts are easily made and tooling costs are low."

 David J. Bak, East Coast Editor Design News







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