

# MATERIAL HANDLING PRODUCT NEWS®

ADVANCES IN SYSTEMS, EQUIPMENT & PRODUCTS

## 2002 Technology Trends

**LOOK INSIDE** for containers that meet tough regulatory demands and cut your shipping and handling costs.



SPECIAL ISSUE

Featuring:

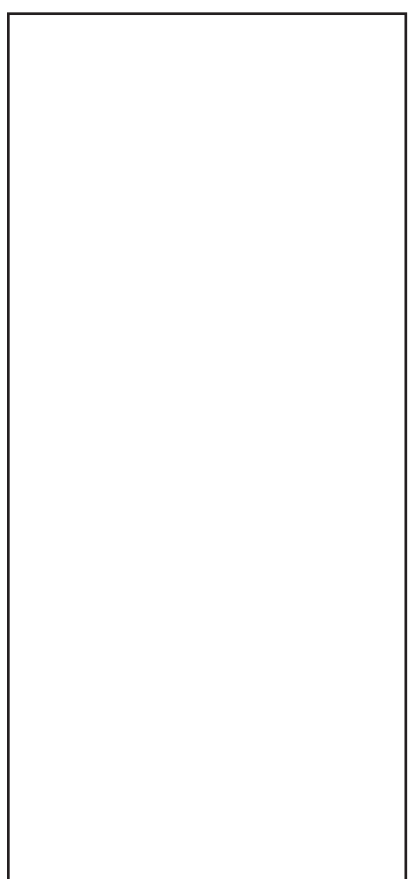


Meese Orbitron Dunne Co.



Meese Orbitron Dunne Company  
535 N. Midland Ave.  
Saddle Brook, NJ 07663

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## Meese Orbitron Dunne Company

Material Handling Solutions Meet Regulatory Demands and Cut Costs

### MOD Designs Containers To Meet Specific Requirements

As manufacturers scour the supply chain for opportunities to cut costs and speed deliveries while struggling under the weight of UN/DOT, USDA and other demanding regulations, savvy material handling companies are contributing high-tech solutions in the form of software, automated equipment and reusable containers that meet regulations, reduce packaging waste and aid tracking and security. One container manufacturer, Meese Orbitron Dunne Company, Saddle Brook, NJ, for example, custom designs and manufactures bulk containers for Fortune 500 companies such as Disney, IBM, Weyerhaeuser, Seaquest Closures and Borden Chemical to meet specific regulatory and tight budgetary requirements. Although the MOD containers may last forever in operation, according to MOD Vice President of Sales and Marketing Jack Pape, the company is afforded considerably less time for product development.

To speed product development and cut up front investment requirements, MOD integrates advanced computer technology into its process. In the hands of the skilled MOD engineering team, these 3-d solid modeling and CAD/CAE packages cut prototype and tooling development time and



The HenHandler features a smooth, contoured interior that cleans easily, promotes complete drainage and protects chicken, beef and other contents from bruising during loading and shipping.

costs substantially while permitting product modifications after the initial stages at low cost. Applying this sophisticated technology, MOD has unveiled a series of bulk containers that solve problems specific to the shipping and handling of foods, chemicals and other products yet compete in price with the company's workhorse off the shelf containers.

### Poultry in Motion

In the food industry, USDA regulations focus on preventing bacteriological organisms from propagating in machines, containers, on conveyors and anywhere inaccessible nooks and crevices could harbor bacteria such as E. coli and salmonella. Outbreaks could contaminate entire batches of food from soup to nuts. The MOD HenHandler was designed using 3-d solid modeling to help food processors address this issue. Featuring a one-piece, rotationally molded, all-plastic container, the FDA/USDA-approved HenHandler's seamless design eliminates the pockets, dimples and fasteners that harbor bacteria, boasting a smooth, contoured interior that cleans easily, promotes complete drainage through an FDA-approved rubber plug and protects chicken, beef, pork, seafood and other contents from bruising during loading and shipping. In washdown conditions, the sanitary HenHandler's polyethylene construction virtually repels attacks from cleansers, salts, water and other chemicals. To aid inplant operations, MOD engineers designed the HenHandler with a 4-way accessible pallet base that withstands off-the-mark forklift entry yet may be easily removed by one



MOD permanently molds logos, serial numbers, tracking codes and other information into containers for fast identification and enhanced security.

person and replaced if necessary without having to replace the container itself.

### Ultrapure Assured

This increasing consideration of the container as part of a solution to specific issues is playing a key role in quality assurance. In the semiconductor and related industries, entire batches of costly, high-purity acids and

solvents and ultrapure water can be rendered useless by seemingly trace amounts of metallic impurities. Enter the MOD Unitote, an all-plastic, reusable intermediate bulk container designed specifically to eliminate the potential for metallic leaching during the storage and transport of high purity products, helping suppliers meet the demanding 1 ppb purity specifications often required for

high-tech processing operations. Set in a one-piece, rotationally molded polyethylene base, the heavy-duty container earned UN/DOT-approval for hazardous materials transport and is rated for products up to a weighty 1.9 specific gravity.

### Innovation in the Bag

Material handling professionals throughout the world take their role as environmental stewards seriously and although many would rely on reusable, returnable containers rather than costly disposable systems if cost were not a factor, container manufacturers have struggled to deliver a system that meets the seemingly competing demands for ease of use, pricing and environmental responsibility — until now. The MOD Fold-A-Tote is a versatile intermediate bulk container that combines the ease of a disposable with the long-term cost-savings and environmental benefits of a returnable. A single trip, disposable, plastic-lined polyester bag is set in a rugged, reusable container that folds down from a height of 62" when full to 25" when empty for space-saving returns and reduced shipping costs. Developed specifically to provide a cost-effective solution for environmentally con-

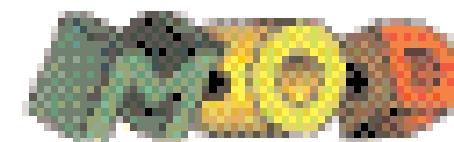


The Unitote IBC earned UN/DOT-approval for hazardous materials transport and is rated for products up to a 1.9 specific gravity.

scious professionals across a broad range of industries, the Fold-A-Tote is ideal for the storage and transport of both liquid and powdered products such as adhesives, inks, water-based coatings, juices, flavors, soaps, detergents and other non-regulated food, chemical and pharmaceutical products.

### Flexibility in Automation

MOD's ability to custom design containers to suit specific tasks with relatively low development costs has attracted the attention of several firms involved in the design and development of automated material handling systems. From airports to assembly lines, the complexity of these systems demands attention is paid to a host of diverse issues from logistics and ergonomics to equipment specification and facility design. While this can leave proper container design on the back burner, MOD custom designs the container around the specifications of the system — quickly "We're giving system designers the flexibility to develop the system they need with the complete confidence that we can develop virtually any container to fit the unique characteristics of the most innovative automated system," says Pape.



Shaping Your Ideas In Plastic

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