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## **Integrated Fabric Resource**

specializes in the custom design and manufacture of fabric pouch assemblies, tote liners and bin liners for in-process, expendable, and returnable material handling systems.



We provide customers with innovative solutions for their material handling needs

and product protection. Our products are used in handling a broad range of manufactured parts of truck and automotive interior and exteriors, appliances, electronics and other parts with class-A and other special handling requirements.

As a leader in soft returnable packaging design and manufacturing we are committed to helping our customers create the most effective packaging solution for their needs.



Engineered Industrial Fabric Dunnage & Packaging Systems
Returnable Shipping Racks • WIP Racks

Returnable Shipping Racks • WIP Racks
Collapsible Tote Liners • Large Returnable Liners
Expendable Tote & Bin Liners



616-772-2052 www.ifrinc.com



From initial concept to final conveyance, Integrated Fabric Resource offers the most comprehensive design and manufacturing in soft packaging.

As our current clients know: Relying on one, trusted source for your complete packaging needs maximizes efficiency and cost effectiveness.

## **Engineered Design Concepts—Quick**

With just a sample part or CAD Data, a description of your desired conveyance system, and the number of parts in the pipeline, we can provide you with a concept drawing in five days or less.

#### **Rapid Prototyping**

With an approved concept, prototype samples can usually be delivered in five days or less.

#### **Quality Manufacturing**

We manufacture the products that we design!
No middle-men. Bottom line: you are assured the highest quality product every time. Our engineering and manufacturing systems are ISO 9001-2000 registered.

#### **Program Management**

We provide turn-key solutions, including comprehensive design, prototyping, manufacturing and delivery for all segments of your supply chain. Delivered to meet the specifications of the project.





## Where complete soft pac

(ISO 9001-2000 Registered)

Our comprehensive approach means no packaging problem



## kaging solutions come together.

Your Complete Solution



(ISO 9001-2000 Registered)

**Manufacturing** 



is too tough to solve.

# • It's Flexible!

- Returnable system eliminates all expendable materials
   Dunnage Will collars
   Fabric eliminates all expendable materials Dunnage Will collapse and self-contain within a tote or lincreased in cancer in the contain within a tote or lincreased in the contain within a tote or li
- Fabric solutions can easily be created to utilize existing contains on parts

- Increased part nesting capability Reduced part nesting capability
   Class A Surface Protection
   Reinforced
- Class A Surface Protection
- Reinforced Strength and Durability • Mold and Mildew Resistant
- UV Protection
- Various Weights
- Cost Effective
- No tooling Cost



You do your part. We'll handle the rest. Virtually any part type, size, or dimension can be safely and efficiently handled by our custom designed fabric packaging systems. Below is a partial list of the types of parts for which we've designed and manufactured effective handling solutions.

#### **VEHICLE INTERIOR**

- Door Panel
- Door Handle
- Door Inner Module
- Door Bolster
- Door Substrate
- Door Armrest
- Overhead Console Visor
- Grab Handles
- Headliners
- Hard trim/Garnish Trim
- A-pillar upper & lower
- Scuff plates
- B-pillar upper & lower
- C-pillar upper & lower

- Side wall trim -SUV/Van
- Lift gate package lower
- Lift gate package upper
- Body Wire Harness
- Hand Parking Brake
- Foot Parking Brake
- Foot Pedals
- Air Bag Modules
- Steering wheel
- Side door
- Side overhead Passenger - IP
- Seat Belts
- Seat Belt Retractors

- Shelf Panel
- Trunk/floor system components
- Instrument Panel
- IP Substrate
- Glove box Assembly
- IP Cluster
- Center Stack Components
- Knee Bolster
- Front Seat Components
- Armrest
- Plastic trim pieces
- Headrests
- Floor Console
- Floor Console

- Components
- Rear View Mirror
- IP Harness
- Interior window halo

#### VEHICLE EXTERIOR

- Side View Mirror
- Front Fascia
- Rear Fascia
- Body Side moldings
- Headlight assembly
- Lamp lens
- Lamp housing
- Tail lamp assembly
- Lamp lens
- Lamp housing
- Wheel cover

- License plate garnish assembly
- Rear Spoiler
- A/B/C pillar plastic trim
- · Door Handles
- Exterior Halo
- Luggage Rack Components
- Front Grille
- Cowl Grille
- Rocker Panels
- Front and Rear Wheel Flares

#### VEHICLE MISC.

- Engine Harness
- Miscellaneous Wire Harnesses
- Painted steel pieces
- Plastic Engine Cover
- Under-hood plastic components
- Radiator Assemblies
- Fuel lines
- Transmission cooler
- Electronic Control Module
- Air Inlet Module
- Transmission subhousing
- Gas Tanks



Whatever you manufacture, we've got it covered. Here are just a few of our soft packaging solutions in action. While these examples are valuable "thought starters," the real magic starts when we begin working with you to evaluate your in-house conveyance and returnable shipping needs. Only then can we develop the custom solution that fits your process, your parts. Our experts will design unique systems that take into account everything from the best fabrication to the right fabrics for accommodating and protecting each part you make. Your team puts its all into designing and manufacturing the best parts possible. We at IFR put our all into making sure those parts get where they're going, safer and more efficiently. We look forward to getting started!

# Expendable

- 100% Recyclable
  Increased density over corrugated dunnage
  Class A-Surface friendly
  Created for use in large containers and hand held totes
- Cost effective solution









### Our many bulk container options offer:

- Maximum space utilizations
- Class A surface protection with collapsible design
- Most designs offer easily-removable dunnage for cleaning
- Specialized systems detailed at right:

# **Bulk Container**



#### BULK CONTAINER: COLLAPSIBLE SELF-CONTAINED HANDLING SYSTEM

- One person can easily dismantle containers and dunnage
- Dunnage stays inside container when collapsed minimizing loss or damage

#### SIDE LOAD BULK CONTAINERS

- Retrofits basic bulk container to be used as a
- Non Class A surface protection also available
- Cost savings over conventional steel racks
- Lighter than steel racks (freight savings)
- Line side space savings
  Can be applied to any size bulk bin container
  Both single and double side loading



### SLIDE-PACK BULK CONTAINERS: A UNIQUE SELF-CONTAINED HANDLING SYSTEM

- Adjustable gliding dunnage offers advanced ergonomic capabilities
- Hardware can easily adapt to a variety of containers
- Universal loading and unloading



# Applications



Tote Applications

Convert your standard tote into a customized shipping container! Made-to-fit, our tote liners conform and protect parts.

- · Eliminates the need for specialty films, coatings, or protective packaging on parts
- · Increased part nesting capability provides increased
- · Cost effective to manufacture
- Complete returnable system eliminates all expendable materials
- Dunnage will collapse for increased shipping savings with collapsible tote units
- · Dunnage can be changed out and adapted to accommodate new programs
- No specialty tooling or die cutting. Saves time and money





- Designed to accommodate large and small parts
- · Neatness and care given to each part
- Ability to nest one part to the next while separated by protective fabric
- Designed to: conserve space, manufacture economically, protect parts, and ergonomically friendly to operators
- · Easy to clean and maintain
- Ability to accommodate in line sequencing of parts









# Covers





- Reduces part contact with dust and airborne substances
- Eliminates the additional use of specialty films, coatings, or protective packaging on parts
- Made of various materials to meet the needs for the care of your product
- Custom Designed for In-Process Racks, Shipping Racks, Totes, and Bulk Bins



- Industrial elastic used to insure a secure fit and durability
  - Designed for easy replacement
    - Durable, reusable, washable and economical
      - Colored elastic trim to match covers to specific parts
      - Custom stamping & labeling of program information



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Where Complete Soft Packaging Solutions Come Together.