

COST-EFFECTIVE PACKAGING SOLUTIONS DON'T FIT NEATLY IN THE SAME BOX

AAA Total Packaging Solutions specializes in the custom design and manufacture of fabric bag dividers, tote/ bin liners, and hanging bag racks for work-in-process 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 automotive components, interior and exterior, 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.



From the bees' honeycomb to the tightly packed seeds of a sunflower, nature has always been an efficient packaging engineer. Smart materials, minimal waste, tough structures. In that way, we're a lot like nature. The idea of maximizing design, material selection, manufacturing and warehousing to optimize costs is nothing new to us. It's been our focus since our engineers began designing over 30 years ago.





# **SEWN FABRIC DUNNAGE**

Totes, Bulk containers, and steel racks

Through our manufacturing locations in the USA and Mexico, we can offer full fabric design and sewing capabilities. We'll use soft, pliable materials to custom-fit a solution for your fabric dunnage project. Choosing the best-suited materials and engineering the most appropriate bag design enable:

- Better nesting of parts in each cell
- Greater protection of each component
- Higher density per container
- Greater space and cost efficiencies

# Tote/Bulk Container Applications

- Eliminates the need for specialty films, coatings, or protective packaging on parts
- Increased part nesting capability provides increased Density
- 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



# **Hanging Bag Racks**

- Design to build shipping containers
- Can easily support ILVS Systems
- Creation of new containers and use of existing containers
- Combined use of variety of materials to provide flexibility and protection
- Each project specifically custom engineered to provide maximum density, durability, and ergonomic design
- Containers to fit a variety of parts and space configurations

# **COST SAVINGS**

REAL LIFE EXAMPLE OF HOW WE SAVE OUR CUSTOMERS MONEY

### THE CHALLENGE:

A supplier of high-gloss painted parts was receiving complaints about marks on their parts from shipping. We were asked to redesign their returnable packaging with materials that could protect the part from scratches and allow it to cure safely in the packaging.

### THE SOLUTION:

We performed trials with a number of fabric materials typically used for Class A parts. No parts survived intact — all materials caused a slight scratching or smudging. Since no existing material served our needs, so we developed a material of our own.

### THE RESULTS:

1. Parts damage reduction: from % 31 to 0%

2. New material cost reduction: 25%

3. Lifetime Packaging Savings: \$1.1 million USD



# **COMMON PARTS AND FABRICS**

#### **VEHICLE INTERIOR**

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

#### SUV/Van

- Lift gate package lower & upper
- Body Wire Harness
- Hand Parking Brake
- Foot Parking Brake
- Foot Pedals
- Air Bag Modules
- Steering wheel
- Side door

### 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
- Armrest
- Plastic trim pieces
- Headrests
- Floor Console
- Rear View Mirror
- 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
- 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
- Transmission cooler
- Electronic Control Module
- Air Inlet Module

## **Common Materials Used**

- Milky Clear Vinyl 13oz., 18oz.
- Double Polish Clear Vinyl 13oz.,18oz., 30oz.
- Auto Gray PVC 11oz.,13oz.
- 1 Side Brushed Polyester & Milky Clear -10oz.
- 1 Side Brushed Polyester & Auto Gray 11oz.
- 2 Side Custom Brushed Polyester 14oz.
- Tyvek & Milky Clear 12oz.
- Tyvek 5oz.
- Gray & White PVC 18oz.
- Spunbond 2oz., 5oz.

From initial concept to final conveyance, Total Packaging Solutions 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.

Design Concepts			Program Management
	Rapid Prototyping	Quality Manufacturing	
With just a sample part			We provide turn-key
or	With an approved	We manufacture the	solutions, including
CAD Data, a description	concept,	products that we design!	comprehensive design,
of system requirements,	prototype samples can	No middle-men. Bottom	prototyping,
and the number of parts	usually be delivered	line: you are assured the	manufacturing and
in the pipeline, we can	in five days or less.	highest quality product	delivery for all segments
provide you with a		every time.	of your supply chain.
quote.			

