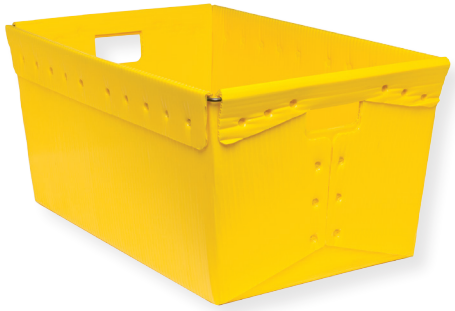


CORRUGATED PLASTIC

Think Beyond the Box.

PRODUCTION & FULFILLMENT SERVICES

Your Project. Our Expertise.

FOAM PACKAGING

Protect Product and Reduce Damage.

MDI®

Manufacturing | Packaging | Services

With Purpose.

WERNER
Simply Better Beef®

WHAT WE OFFER

MDI **manufactures corrugated plastic products:** a wide variety of totes, trays and boxes used by distribution centers, retail, manufacturing, construction, agriculture and transportation businesses. Our packaging solutions include **customized foam designs** to protect products and reduce damage. MDI also offers **production and fulfillment services** such as kitting, assembly and contract packaging. Every product and service can be uniquely tailored for each customer and application. **Your Project. Our Expertise.**

WHO WE ARE

MDI is a manufacturing organization that provides standard and custom packaging solutions, production and fulfillment services, and environmental services for business-to-business customers. MDI has operated a successful, non-profit 501(c)(3) social enterprise for over 50 years, providing meaningful job opportunities for people with and without disabilities, in an integrated and inclusive business setting, both at MDI and in the community. MDI has facilities in the Twin Cities, Grand Rapids, Hibbing, Deer River and Cohasset, Minnesota.

Manufactured Using High Density Polyethylene [HDPE] – From 50% Post-Industrial Scrap & 100% Recyclable

APPLICATIONS

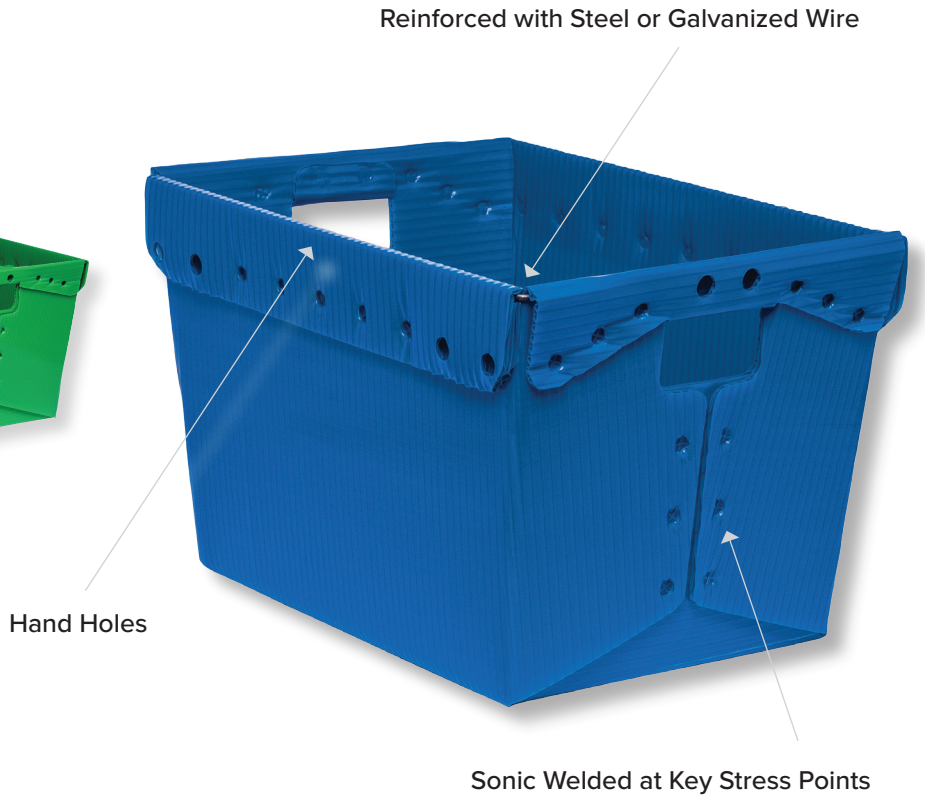
- Product protection and organization in the fabrication and manufacturing cycle, storage and transport
- Used in manufacturing, retail, distribution and warehousing, agriculture, medical, construction and transportation industries
- A packaging material that performs:
  - In cold storage, outdoors; chemical and impact resistant
  - Lightweight for worker comfort and lower transportation costs
  - Fits conveyor systems and material handling equipment
  - A long life cycle; rugged and reusable

MANUFACTURING AND FABRICATION

- Custom design services and prototype development available
- Extruded, die-cut, printed, folded and sonic welded
- Manufactured entirely in the USA

TOTE FEATURES

- Nestable or straight wall
- Sonic welded, shipped assembled
- Reinforced with steel or galvanized wire
- Wrapped hand holes for easier handling



Cost-Effective Alternative to Corrugated Cardboard

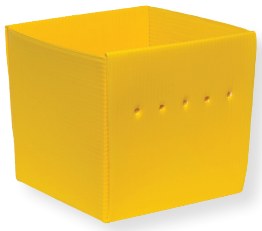
A Long Service Life – Multiple Turns

STANDARD GAUGES AND WEIGHTS

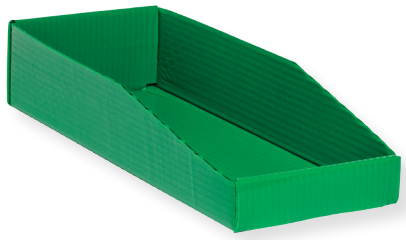
- Standard 160# double-faced: 4mm
- Die-cut tolerance: +/- 1/8” max
- Assembled tolerance: +/- 1/4”
- Weight per 1,000 square foot: +/- 10%
- Corona (surface) treatment: 46 dyne

OPTIONS

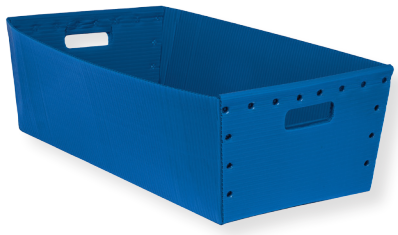
- Accessories include stackers, dividers, label holders, labels, placards, handle inserts and VELCRO® closures
- Standard plastic colors: yellow, blue, green, red, natural, black, white and gray
- Custom colors and screen-printing



Sonic Welded



Knockdown



Sonic Welded and Hand Holes

TRAY FEATURES

- Nestable or straight wall
- Sonic welded, shipped assembled
- Knockdown, shipped unassembled
- Durable and reusable

Standard Colors

Custom Colors Available

Complete Manufacturing Process

Extrude, Die-Cut, Print and Assemble

APPLICATIONS

- Industrial, manufacturing, office organization, display boxes and containers
- Shelving boxes, material handling and transport
- Distribution center pick and pack
- Part of a closed-loop distribution system

MANUFACTURING AND FABRICATION

- Custom box and container design services
- Prototype production
- Complete manufacturing process

STANDARD GAUGES AND WEIGHTS

- Standard 160# double-faced: 4mm
- Die-cut tolerance: +/- 1/8” max
- Assembled tolerance: +/- 1/4”
- Weight per 1,000 square foot: +/- 10%
- Corona (surface) treatment: 46 dyne

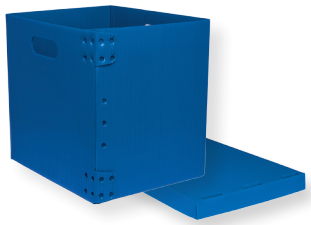
OPTIONS

- Accessories include dividers, label holders, labels, placards, handle inserts and VELCRO® closures
- Standard plastic colors: yellow, blue, green, red, natural, black, white and gray
- Custom colors and screen-printing

BOX FEATURES

- Sonic welded, shipped assembled
- Knockdown, shipped unassembled
- Straight wall
- L-Lock top
- Auto lock/snap bottom
- Standard RSC top and bottom
- RELF with tuck top and tabs

HSC with Cutout;
Auto Lock & Snap Bottom



Auto Lock Bottom
Welded Wrap Tab Seam;
Lid Included

RELF with Tuck
Top and Tabs

L-Lock Top
Auto Lock Bottom

RELF with VELCRO® Closure

Customizable, Easy To Handle and Fabricate Tree Wrap Protection

MANUFACTURING AND FABRICATION

- Double-faced corrugated plastic sheets and rolls: two-layers of plastic, co-extruded with a corrugated plastic center core, the inner core consists of a waved flute that runs horizontally
- Single-faced corrugated plastic sheets and rolls: two-layers consisting of one outer layer, co-extruded to a corrugated waved flute layer
- Sheets and rolls available in standard plastic colors: yellow, blue, green, red, natural, black, white and gray

SINGE-FACED ROLLS

- Width: up to 53.5”
- Length: 250’ or 500’
- Weight: 110#, 125#, 150#, 250#

DOUBLE-FACED ROLLS

- Width: up to 53.5”
- Length: 250’ or 400’
- Weight: 160#

SINGE-FACED SHEETS

- Width: up to 53.5”
- Length: up to 96”
- Weight: 110#, 125#, 150#, 250#

DOUBLE-FACED SHEETS

- Width: up to 53.5”
- Length: up to 96”
- Weight: 160#, 250#, 300#

TREE WRAPS

- Standard colors: natural (to encourage heat transfer) and white with a black corrugation (to protect and insulate)
- Multiple sizes available
- Reusable, recyclable and flexible

WATERJET BRICKS

Flutes **Draw Water** and **Abrasives Away** From Cutting Surface **Preventing Splash** Back and Film on Parts

APPLICATIONS

Used as surface for abrasive or straight water cutting metal, stone, plastic, glass, food and composites

SIZES AND WEIGHTS

- Standard dimension: 48” × 6” × 4” (custom sizes available)
- Weight: 250# and 300#
- Standard colors: black or natural

FEATURES

- Unique fluting system drains water and abrasives away
- Screwed or nailed together
- Galvanized or non-galvanized fasteners
- Manufactured from High Density Polyethylene (HDPE)

Designed and Fabricated For Superior Protective Performance Meets The Demands For Protective Packaging

APPLICATIONS

Our design team will create and fabricate an outstanding protective solution for your product; to protect it in manufacturing, storage, transport and display.

MDI protective foam packaging is designed to provide:

- Protection from shock, vibration and impact
- Anti-static and ESD control for electronic and medical devices and instruments
- Foam inserts for demonstration, instrument and tool cases providing long-life and protection
- Protection for high-value, fragile and “one-of-a-kind” products
- Blocking, bracing and end-caps
- Rails and dividers
- Dunnage
- Reusable and recyclable

FOAM MATERIALS

- Cross-link
- Expanded Polyethylene (EPE)
- Expanded Polypropylene (EPP)
- Expanded Polystyrene
- Neoprenes
- Polyethylene
- Polypropylene
- Polystyrene
- Polyurethane
- Specialty foams

FOAM FABRICATION PROCESSES

- Adhesive backing and gluing
- Assembly
- Contour cut
- Die-cut
- Vertical and horizontal slitting
- Waterjet cut
- Wire cut

Production, Fulfillment and Packaging Services For Retail, Manufacturers and Distributors

ASSEMBLY
Multi-part or component sorting, assembly, and sub-assembly
Light industrial, mechanical assemblies, POP and POS display units

INSPECTING AND TESTING
Visual, dimensional/functional inspection and testing of products
Liquidated, overstock and return products

LABELING
Labeling for mailings and distribution
Labeling and re-labeling of discontinued, overstock or returned products for resale

REWORKING
Checking, sorting, assembly, re-labeling and packaging of returned or discontinued products

COLLATING
Organizing, sorting, assembly and packaging of printed materials
Direct mail, promotional and sample product mailings

KITTING
Combining and packaging of multiple items to create one SKU
Combine product with print material
Package and unit labeling
Hardware parts kits

PACKAGING
Leading-edge packaging equipment and systems
Custom package design, protective foam packaging and corrugated plastic packaging

SHRINK WRAPPING
Fully automated shrink-wrapping, bundling, banding, polybag and heat sealing

Design **Expertise** and **Accurate** Quotes
Quick **Prototype** Turnarounds & **Manufacturing**

Our design team has the EXPERIENCE and TECHNOLOGY to transform your idea to a product SOLUTION. We are experienced packaging designers and manufacture millions of packages.

WHAT WE BRING TO THE TABLE

We design custom packaging to create solutions that protect, organize, store and transport products, devices and instruments.

MDI has manufactured millions of packages for big box retailers, manufacturers and transportation companies. Our products are used for packaging, distribution, warehousing, organization, and material handling. For some of those customers there wasn't a stock answer.

- With CAD | CNC technology we deliver quick turnaround on designs and prototypes: speeding product development to bring products to market faster.
- We will work with your design files or help you define packaging requirements and specifications. The solution is manufactured quickly and cost-effectively with our manufacturing guided by ISO 9001:2008 standards for quality.

MDI brings an out-of-the ordinary packaging expertise to the table. Contact us today.

PRODUCTS: Custom and Standard Designs

Totes, Trays, Boxes, Sheets, Rolls, Recycling Bins, Tree Wrap, WaterJet Bricks and Custom Plastics

SERVICES: Assembly, Production, Fulfillment, Contract and Secondary Packaging

Assembly, Kitting, Packaging, Shrink Wrapping, Labeling, Product Testing, Inspection, Production Rework, Collating and Fulfillment

FOAM PACKAGING: Protecting High-Value Delicate Instruments and Fragile Items

Protects Products Sensitive to Shock or Vibration

ISO 9001:2008 CERTIFIED

AbilityOne NETWORK

CARF ACCREDITED

GuideStar Exchange SILVER PARTICIPANT

Serve People With Disabilities By Offering Inclusive Employment Opportunities and Services