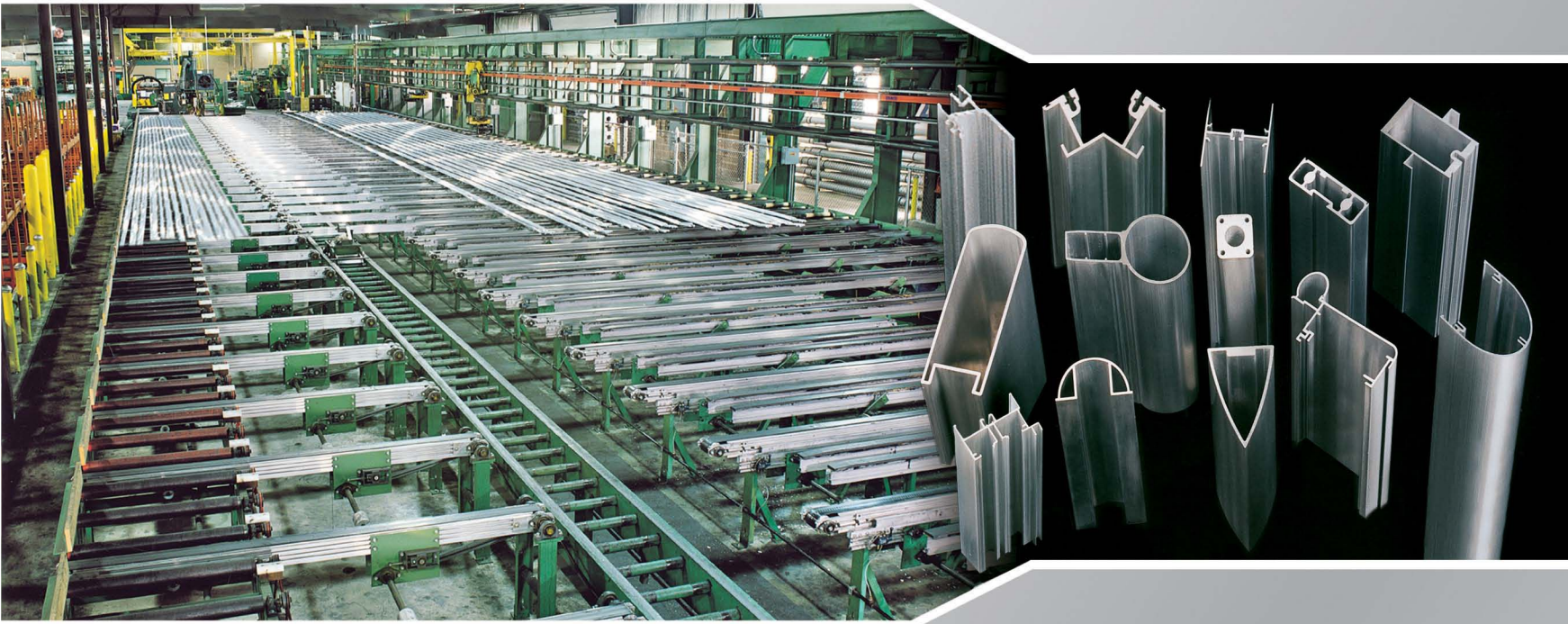


# Astro Shapes Aluminum Extrusions



ABOUT US / EXTRUSIONS

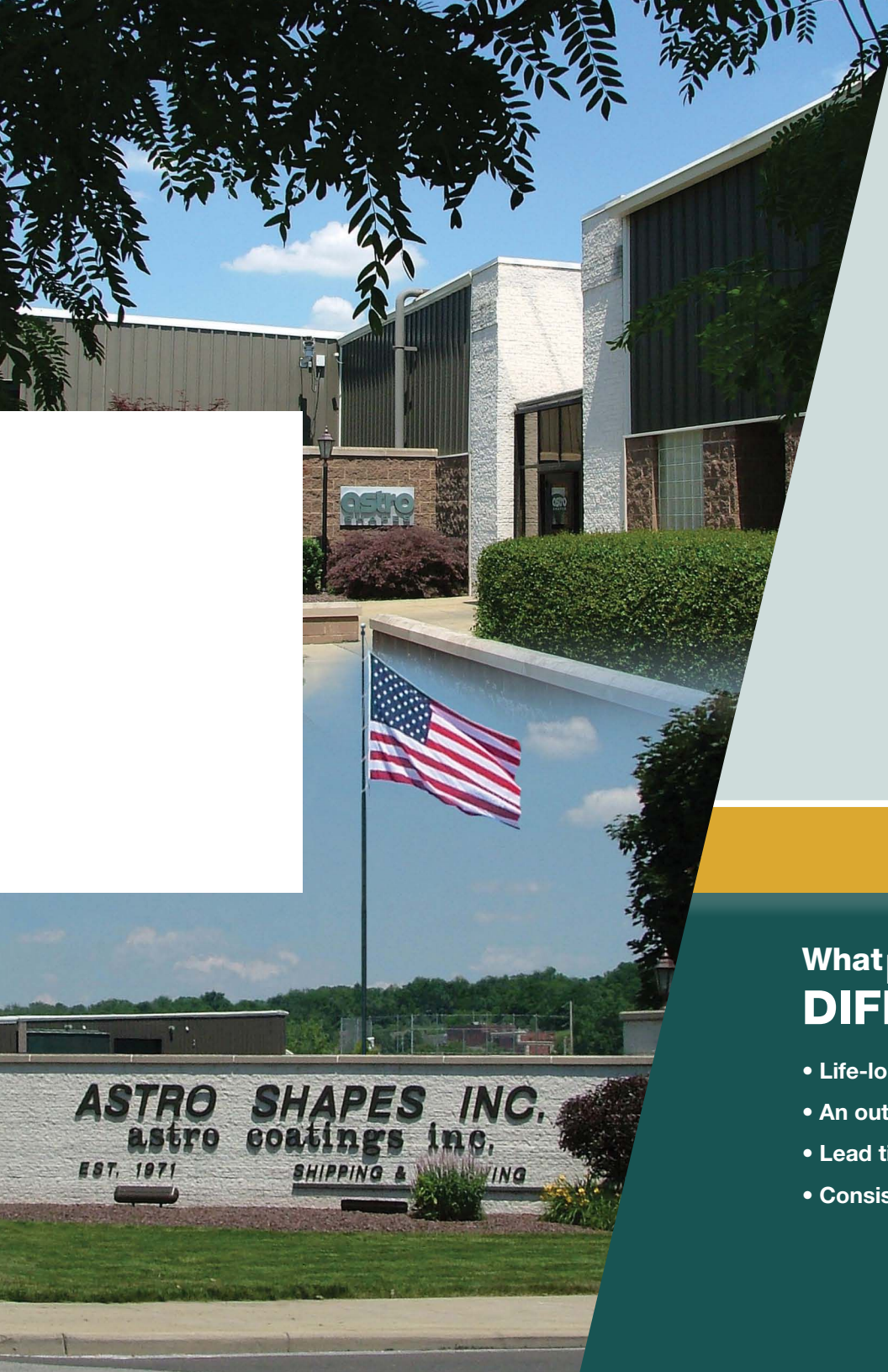
FINISHINGS / THERMAL BARRIERS

QUALITY / SERVICE / PACKAGING

Partner of Choice



ASTROSHAPES, INC.  
*Aluminum Extrusions*



## THE ASTRO SHAPES WAY

At Astro Shapes, our mission is to manufacture superior, custom-finished aluminum extrusions. Founded in Struthers, Ohio in 1971, quality and service have long been the hallmark of Astro Shapes. As our reputation has grown, so have our facilities, which are now over 300,000 square feet and 400 employees.

Our broad market experience includes:

- Building & Construction
- RV/Leisure and Transportation
- Machinery and Equipment
- Consumer Durables
- Electrical
- Medical

Astro Shapes' core market is the **Building and Construction** marketplace. When it comes to windows, doors, enclosure rooms, solariums, railings and fences, as well as the diverse range of building and construction products required in the market, our knowledge and experience in the Commercial, Residential, and RV/Leisure Industries are second to none.

## What Makes Us DIFFERENT?

- Life-long customers dating back to our first day of business in 1971.
- An outstanding record for high quality parts.
- Lead time solution programs to meet specific customer needs.
- Consistent on-time delivery track record.



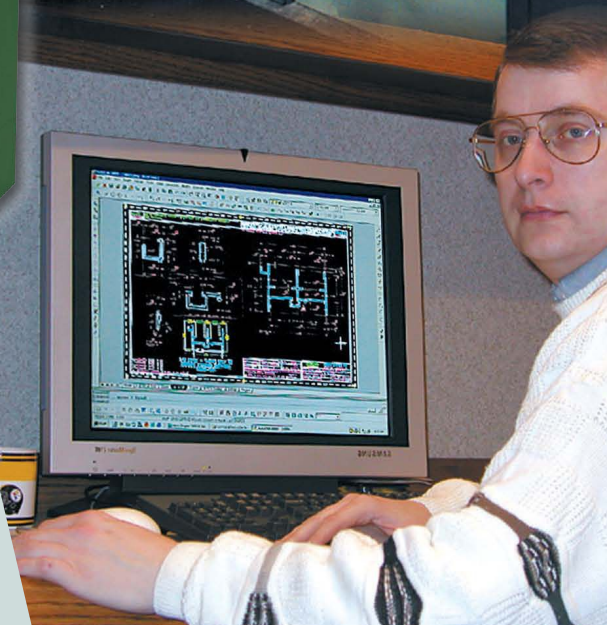
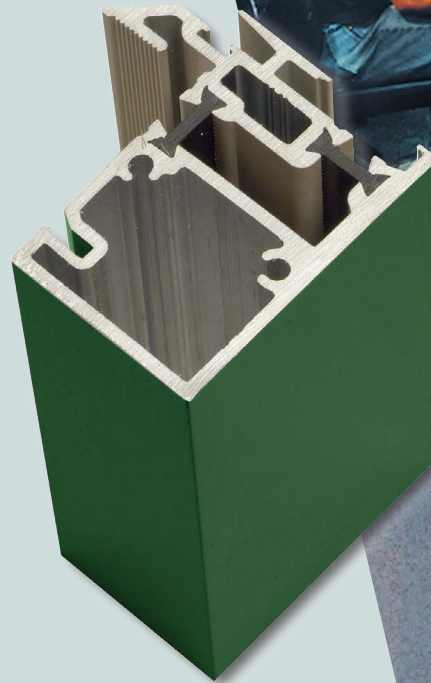
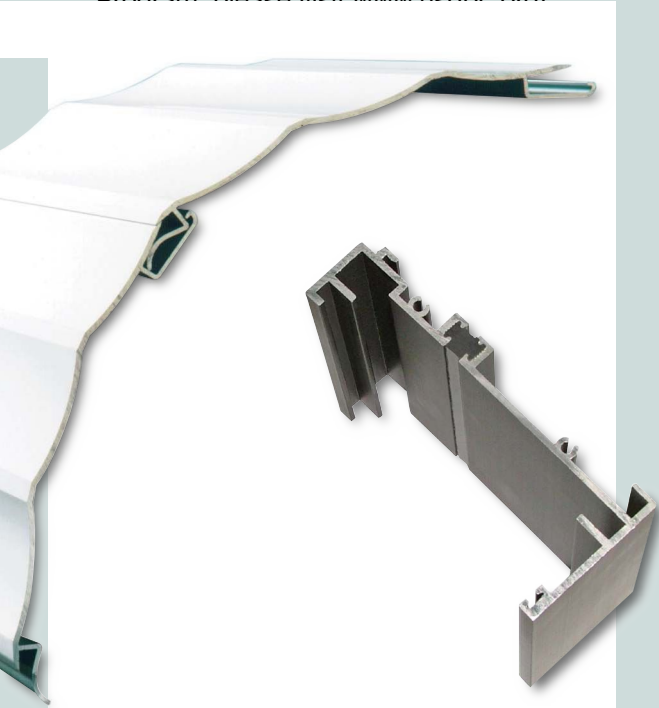
## EXTRUSION CAPABILITIES

Astro Shapes' commitment to quality includes maintaining state-of-the-art equipment to handle the most demanding extrusion requirements. Our full range of computerized extrusion presses, from 1000 ton to 2500 ton, enables Astro to produce the most intricate shapes for any market. Utilizing various capabilities and billet diameters of 6, 7 and 8 inches, Astro can maintain level loading of production schedules to assure customers' delivery requirements are met.

- Alloys 6063, 6005A and 6000 series equivalents

These alloys when combined with T4, T5, T6, T61 and T52 tempers ensure consistent physical properties along with the finest surface quality available in the industry.

Astro utilizes both Prime and Prime Equivalent billets to support LEEDS requirements. (for additional information on the LEEDS Program, please visit [www.usgbc.org](http://www.usgbc.org))





## FINISHING

Superior quality is our single-minded purpose behind the paint finish that Astro provides.

Our state-of-the-art 25ft vertical Ransburg Wet Electrostatic paint line utilizes Acrylic-based and high performance Kynar paint finishes. System features/benefits include:

- The most marketable paint finish in the industry.
- Paint recipes for specific dies can be recalled at the stroke of a computer key.
- High-speed 40,000 rpm turbo disc which atomizes more cubic centimeters of paint into finer particles to permit optimum coverage in recess areas.
- Paint coverage readings are taken by a portable color eye in real time and uploaded into the Astro database for constant QC evaluation.
- Strict adherence to American Architectural Manufacturers Association's AAMA 2603, 2604 and 2605 specifications and warranties.
- Thermal roxidation technology for VOC destruction of 98% efficiency. Respect for the environment and an earth conscious attitude.
- On-line order/item tracking by line item, die, color and piece count "maps" the entire paint process in real time.

## Did You KNOW...

AstroShapes also provides high quality powder coating and anodizing services through our external vendor partnerships.

## THERMAL BARRIER OPTIONS

### Long Lasting Thermal Barrier Designs

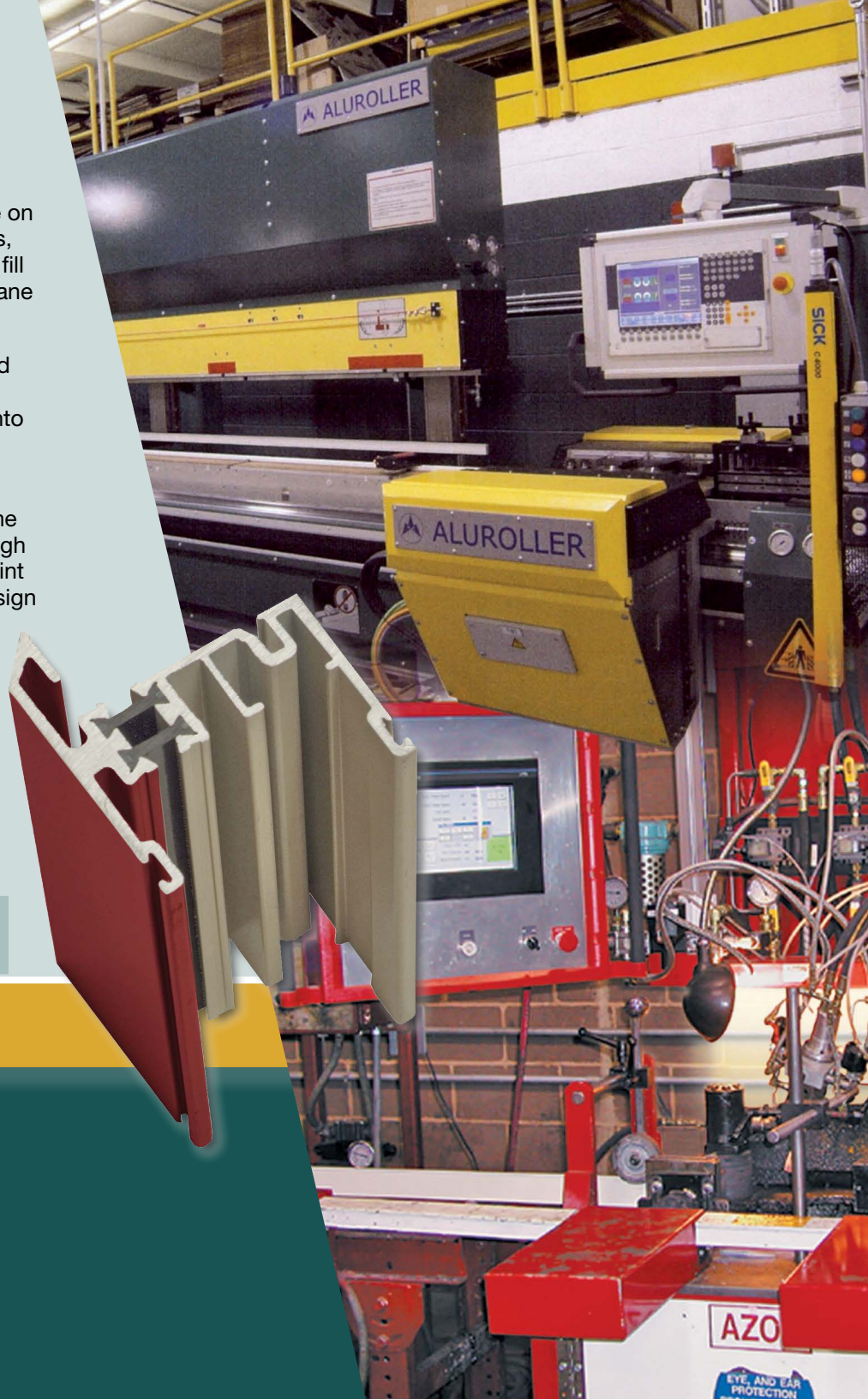
For the building and construction market, your extrusions take on added value when they are thermally efficient. At Astro Shapes, we have the production facilities and the expertise to properly fill and debridge or create a mechanical bond between polyurethane and metal. Options are as follows:

- The Azon two-component polyurethane system is formulated to meet the most demanding tensile, impact elongation, UV and environmental conditions. The polyurethane is poured into a thermal break channel and “set” in line and debridged.
- The Polyamide Strip System is a process of mechanically locking polyamide and two extrusions. This system allows the flexibility of producing two-tone aluminum extrusions with high performance paint on the exterior while utilizing standard paint on the interior. The system also enhances our ability to redesign complex extrusions and expand our circle size. Our system provides a superior product to more conventional systems with regards to straightness, twist, and shear values.
- Astro Shapes can also perform the Azo-Brader® technique on your extrusions, creating a mechanical bond between the polyurethane and the metal. Beneficial to all thermal applications, this process is highly recommended for metal in a mill finish or anodized state.

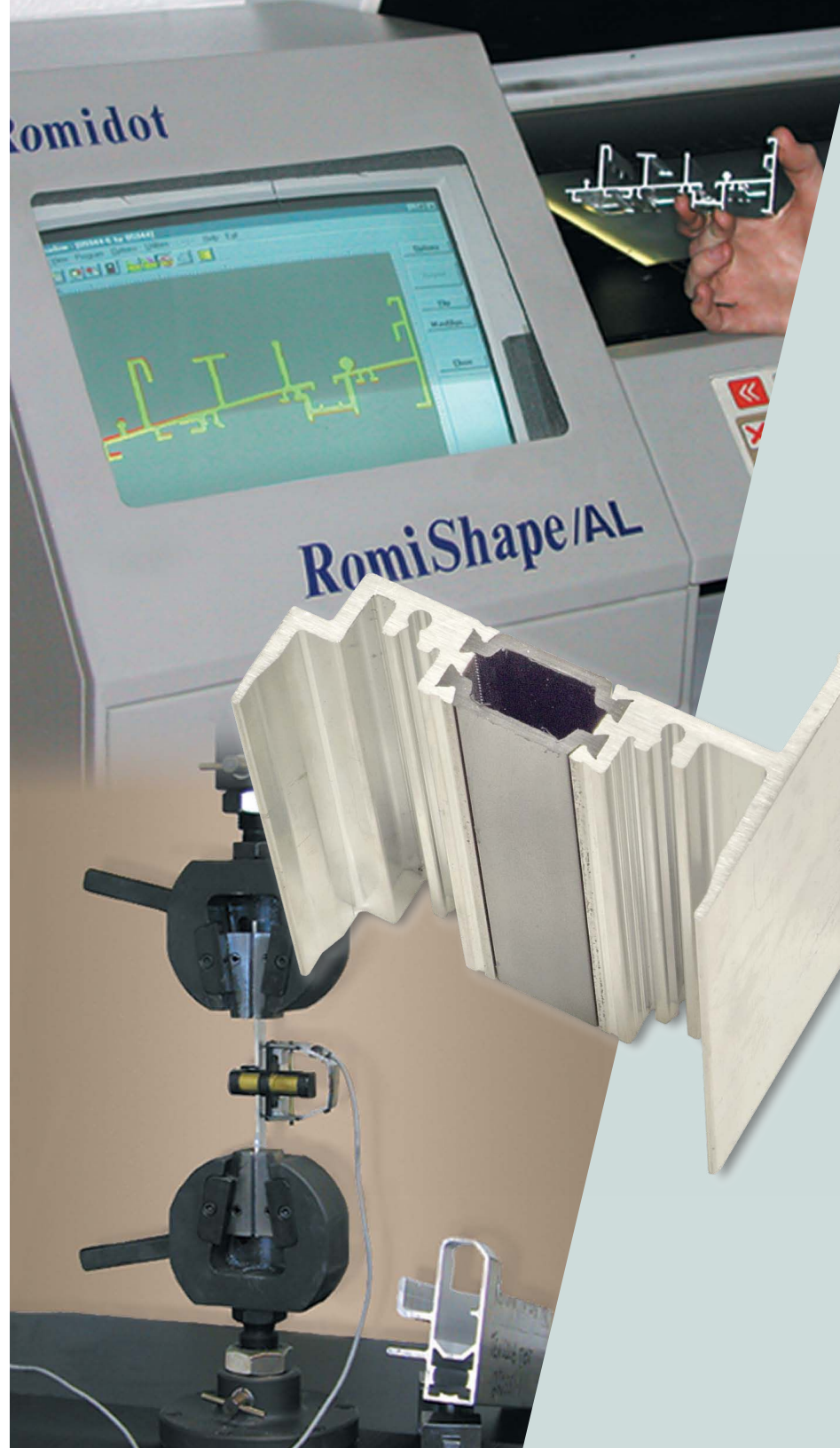
Value Added  
**SERVICE**

Did You  
**KNOW...**

For a complete listing of AAMA specifications or to purchase these publications, go to [www.aamanet.org](http://www.aamanet.org).



FINISHINGS / THERMAL BARRIERS



## QUALITY

The secret behind Astro's success is our focus and commitment to the value added services which we provide. Extrusion excellence requires more than the latest technology and equipment. Astro employs some of the most experienced and skilled personnel in the industry. All Astro employees are engaged in the education and training of each manufacturing process and product performance criteria to ensure complete compliance with all customer specifications. The company Quality Policy recognizes that quality is a never-ending journey that requires continuous improvements in technology, manufacturing systems, product development and services. To that end, the company operates within a Total Quality Assurance Program. To complement this program, we offer our extensive design assistance and AutoCAD expertise enabling Astro to provide the most efficient and cost-effective products. We listen to our customers and provide long-term solutions to their problems.

## CUSTOMER SERVICE

Astro employees are the source of our strength and the key to achieving our mission through their commitment to the core values of quality, service, innovation, flexibility, safety and teamwork. Our employees' dedication and their "can do" attitude offer personalized service that is consistently applauded by our customers.

Utilizing a courteous, cooperative and responsive customer service team, Astro expects and delivers "World Class" service to our partners. We are the best at making it easy to conduct business and we truly believe our customers are always right.

## ON-TIME DELIVERY PERFORMANCE

Astro Shapes prides itself on its exceptional On-Time Delivery Performance. Measured to the *original requirement* date and at the *line item* level, our delivery metric is as customer focused as our employees. Routinely tasked to the shortest lead-times the industry has to offer, the Astro team understands the benefits this competitive advantage provides our customers.

By effectively utilizing its dedicated transportation fleet Astro coordinates the shipment of all its customer requirements through a two-week planning horizon. Repeatability is of paramount importance to us, and Astro's ability to deliver to the hour is unmatched. Just ask our customers, many of which have been with us since Astro's inception.

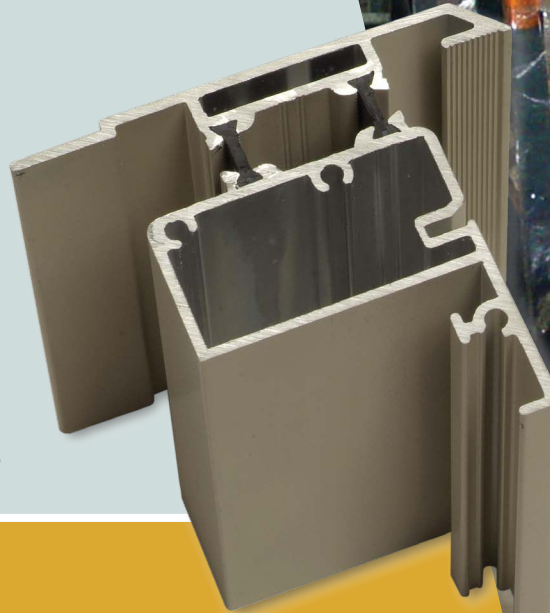
## PACKAGING

### *State-of-the-Art Handling, Packaging & Shipping Logistics*

When you talk innovation, the Astro Shapes name will always be at the forefront of the conversation. Our markets have longed for a material handling damage solution. Astro's fully integrated material handling, packaging system and returnable shipping rack were developed to support this initiative. The system provides improved inventory storage and floor space utilization, loading and unloading efficiencies and has significantly reduced the amount of material handling damage.

#### Shipping Rack Benefits:

- No metal strap dents
- No bundle-to-bundle contact
- Racks are stackable and nest within each other when empty
- Spiral wrap secures the finished product tightly to the rack
- Optimizes loading/unloading of shipments down to 30 minutes per load
- Returnable packaging supports the "green" initiative by reducing environmentally unfriendly dunnage



Racks are stackable and nest within each other when empty



This truck is completely loaded with Astro racks, eliminating bundle-to-bundle contact and hence, damage.



## MISSION

- Manufacture custom-finished aluminum extrusions for markets that demand excellence in quality and service.
  - Be the recognized industry leader ...
    - Through continuous education of our employees
    - Process improvement
    - A goal of zero defects
- ... that results in continuous, profitable growth of the organization.
- Have a commitment throughout the organization for quality, service, innovation, flexibility and teamwork recognizing that our employees are the source of our strength and the key to achieving our mission.
  - Always work with great concern for safety, economy and our environment.



ASTROSHAPES, INC.  
*Aluminum Extrusions*

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Astro Shapes is a very proud and active member of these fine trade associations.

