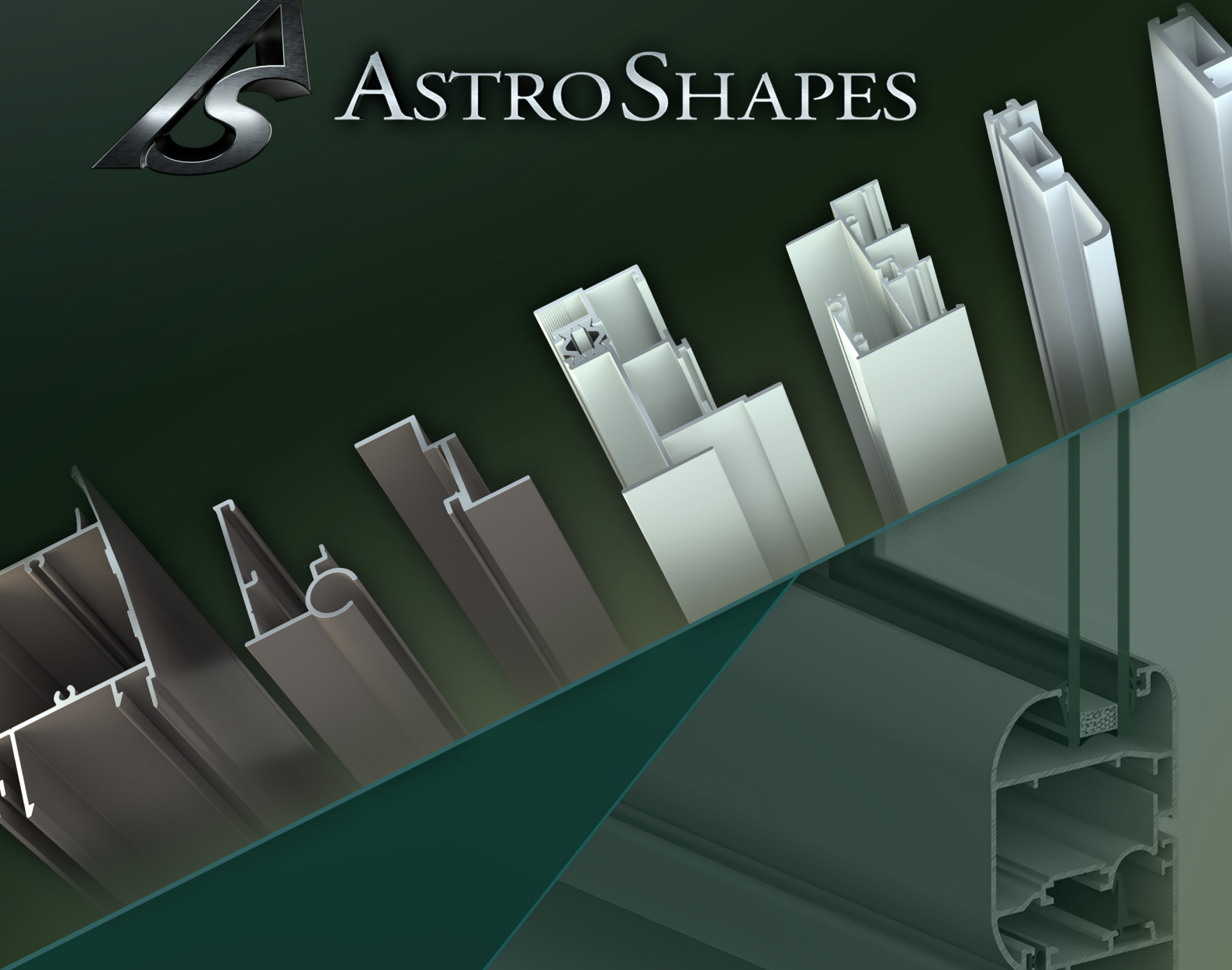




ASTROSHAPES



A LEGACY OF
EXCELLENCE



ASTRO: ALUMINUM EXTRUSION LEADERSHIP

Like many companies, we come from humble beginnings. We were founded in Struthers, Ohio in 1971 with a single 1000 ton Lombard 5-inch press and a mission to manufacture superior, custom-finished aluminum extrusions. In the years since, Astro Shapes has grown into a 450,000 sq. ft aluminum extrusion powerhouse with capacity for 145 million pounds of extrusions annually – all thanks to our continuous investments in the company and its employees.

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

Astro Shapes primarily services the building and construction marketplace. We supply components for windows, doors, enclosure rooms, railings, solariums, fences and the diverse range of building and construction products required in that market. In addition, our knowledge and experience in the commercial, residential, and RV/leisure industries is 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

Our company's commitment to quality includes maintaining its state-of-the-art equipment to handle the most demanding extrusion requirements. With our full range of 6 computerized extrusion presses, from 1400 ton to 2500 ton, Astro can produce the most intricate shapes for any market. By utilizing our capabilities and billets with diameters of 6, 7 and 8 inches, Astro can maintain level loading of production schedules to ensure that our customers' delivery requirements are met.

Alloys 6063, 6005A, 6061, and 6000 series equivalents available.

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.esgbc.org.)

FABRICATION

For customers that require a turnkey solution, Astro Shapes offers a wide range of fabrication services on-site. From cut-to-length, to general fabrication, to precision CNC work, we can meet our customers' needs for projects of all sizes.

Our Aluminum Fabrication Capabilities:

- Precision Saw & Miter Cutting
 - Automatic and Manual Deburr
 - Vibratory Deburr
 - Punching
 - Drill, Tap & Countersink
- CNC Machining - Vertical and Horizontal
- Bending
 - Automated Work Cells
 - Assembly & Component Installation



FINISHING

Astro provides a paint-finish with the single-minded purpose of superior quality. Our two state-of-the-art 20 ft and 25 ft vertical Ransburg Wet Electrostatic paint lines utilize polyester, 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 cubic centimeters of paint into finer particles to permit optimum coverage in recess areas.
- Color readings are taken in real time, utilizing a portable color eye and are uploaded into the Astro database for QC evaluation.
- Strict adherence to American Architectural Manufacturers Association's (AAMA) 2603, 2604, and 2605 specifications and warranties.
- Thermal oxidation technology for VOC with a capture/destruction rate over 98% efficiency.
- Respect for the environment and an earth conscious attitude.
- Online order/item tracking by line item, dye, color and piece count "maps" the entire paint process in real time.

Did You KNOW...



Astro Shapes also provides high quality powder coating and anodizing services through our external vendor or supplier partnerships.

THERMAL BARRIER OPTIONS

LONG LASTING THERMAL BARRIER DESIGNS

For the building and construction market, your extrusion projects take on added value when they are thermally efficient. At Astro Shapes, we utilize our production facilities and our 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 Strips System is a process of mechanically locking polyamide with two or more 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 strength.



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

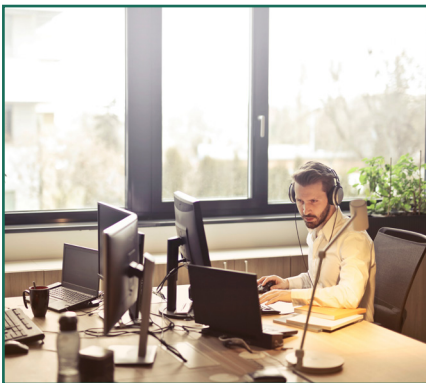
For a complete listing of AAMA specifications or to purchase these publications, go to www.aamanet.org



QUALITY

Want to know the secret behind our success? Simple. It's our focus and commitment to the value-added services that we provide. Extrusion excellence requires more than just the latest technology and equipment, it also takes some of the most experienced and skilled personnel in the industry. All of our employees are well-versed in the ins and outs of each manufacturing process and product performance criteria to ensure complete compliance with each of our customers' specifications.

Our policy on quality reflects our belief that quality is a never-ending journey that requires continuous improvements in technology, manufacturing systems, product development, and services. To meet that end, we offer our extensive design assistance and AutoCAD expertise in what we call our Total Quality Assurance Program. This enables Astro to provide the most efficient and cost-effective products. We strive to listen to our customers and provide long-term solutions to their problems.



CUSTOMER SERVICE

Our employees' dedication and "can do" attitude are the source of our strength and the key to achieving our goals as a company. Through their commitment to the core values of quality, service, innovation, flexibility, safety and teamwork, our team provides our customers with personalized service. With our courteous, cooperative, and responsive customer service team, we deliver world-class service to our partners. We make it easy to conduct business and we truly believe that 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 metrics are as customer-focused as our employees. Routinely tasked to the shortest lead times the industry has to offer, our team understands the benefits this competitive advantage can provide our customers.

By effectively utilizing our dedicated transportation fleet, Astro coordinates the shipment of all of our customer requirements through a two-week planning horizon.

Repeatability is of paramount importance to us. Astro's ability to deliver to the hour is unmatched. Just ask our customers, many of which have been with us since 1971.



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 racks were developed to support this void. The system provides improved inventory storage and floor space utilization, better loading and unloading efficiencies, and significantly reduced material handling damage.

All products are packed according to customer requirements and specifications.

Shipping Rack Benefits:

- No strapping dents.
- No bundle-to-bundle contact.
- Racks are stackable and nest within each other when empty.
- Returnable packaging supports the "green" initiative by reducing environmentally unfriendly dunnage.
- Optimizes loading/unloading of shipments down to 30 minutes per load.



Racks are stackable and nest within each other when empty.

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



MISSION

Our mission is to manufacture custom-finished aluminum extrusions for markets that demand excellence in quality and service. We work tirelessly to be a recognized industry leader – through employee empowerment and continuous process improvement.

Our organization is committed from top to bottom to quality, service, innovation, flexibility, and teamwork. We recognize that our employees are the source of our strength and the key to our continuous and profitable growth.

Lastly, we always work with great concern for safety, economy, and our environment.

“We believe in leading by example through our Astro family, our community, and our expertise. Excellence is our culture.”

Paul Cene
President, Astro Shapes



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