

CAPABILITIES OVERVIEW



ALUMINUM AND BRONZE CASTING

Founded 2006



OUR STORY

PORT CITY ARCHITECTURAL

Port City Architectural was founded in 2006 in Muskegon, Michigan. Our family-owned company has deep roots in the metal casting industry that dates back to the 1930's. Over the past 10 years we have evolved and expanded our products and capabilities by continuously upgrading manufacturing equipment and investing in our most valuable resource; our people. Major Markers & Signature Streetscapes has been built on our team's obsessive dedication to client satisfaction. Innovative and creative ideas - combined with meticulous attention to detail - are the reasons our products are featured prominently at the finest golf courses, private clubs, and residential neighborhoods around the world.

Uncompromising commitment to deliver the highest level of quality cast bronze and aluminum signage is what our customers have come to expect. Our client brands are as important to us as our own, and you can be sure every project is unique. Let us help you 'Cast Your Vision' and bring your ideas to life today!

CONTACT INFORMATION

800-705-1446

Customer Service: 22

Graphics: 23

Sales: 24



MARKETS SERVED

PORT CITY ARCHITECTURAL



GOLF COURSE DEALERS



BUILDER DEVELOPERS



HOME OWNERS
ASSOCIATIONS



ARCHITECTS AND
CONTRACTORS



PRIVATE ORGANIZATIONS
& INDIVIDUALS



SIGN COMPANY &
RESELLERS

CASTING FACILITY

PORT CITY ARCHITECTURAL

Our bronze and aluminum plaque casting facility features state of the art casting equipment uniquely developed for our process and products. Port City's airset molding technology combines an eco friendly resin binder system with silica lake sand to produce superior molds and finished castings. Our equipment includes the following:

- (2) 40-ton sand silos
- Klein Sand transportation system & Castec Sand heater
- Tinker Omega Mixer & Palmer Compaction Table
- (3) Gas Fired melting furnaces capable of melting up to 2500lbs of bronze or 7500lbs of aluminum per 8-hour shift
- Induction Melting: 175 kW Inductotherm VIP power supply with Lift-Swing Furnace

Our mold making technology allows us to setup short run projects and produce very intricate castings with a superb surface finish.

We also utilize a greensand Sinto automatic molding facility for larger production runs in aluminum along with Roto Lift Equipment:

- FBO Sinto III – 20" x 24" (6 over 6)
- (2) Osborn 3191 Roto Lifts
- 30+ Flasks to accommodate various castings (12x12" – 21x52")
- Shell & Airset core capabilities



CASTING CAPABILITIES

PORT CITY ARCHITECTURAL

No project is too large or small, but it's the fine detail that sets us apart from our competition. We specialize in one of a kind or "one-off" castings. Our customer service & design experts can assist you throughout the process to ensure we capture every last detail. Our goal is to make your project exceptional in every way.



CUSTOM LOGO PLAQUES



CUSTOM PAINTED
TEE MARKER



CUSTOM CAST
ADDRESS PLAQUE



CAST ALUMINUM
STREET BLADE



CUSTOM 3D
CAST PLAQUE



ALUMINUM TEE SIGN
& MOUNTING

METAL ALLOYS USED

PORT CITY ARCHITECTURAL

Port City only pours certified ingot and utilizes internal scrap/gating for remelt to ensure your product is made of the correct materials. Not all alloys are created equal, so we serve up only the best for our customers. The metals we use on a daily basis are engineered to perform as intended in nearly any environment on the planet.

356 Aluminum (Standard) – Excellent corrosion resistance, very good machining & weld-ability characteristics, excellent mechanical properties.

535 Aluminum (Almag) – The best corrosion resistance. Usually used in coastal areas, machines well.

C83600 Bronze (Red Brass) – Resists oxidation and reacts less readily with other substances than other metals. Copper does oxidize in air; however, the resulting general corrosion reactions are slow and are self-limiting in that they protect the underlying metal against long-term attack by forming the tenacious corrosion-product films we know as a patina.



ALUMINUM CASTING POUR



ALUMINUM INGOTS



CAST BRONZE

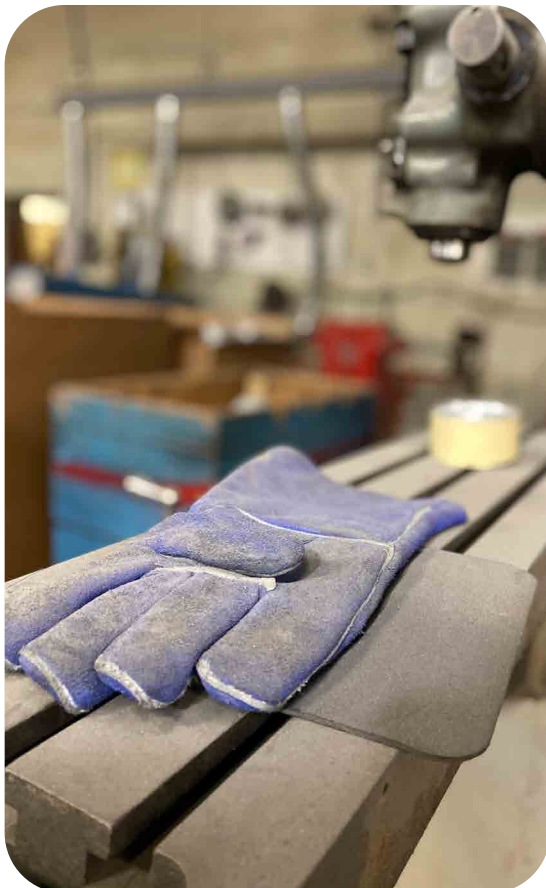
ENGINEERING & PATTERN CAPABILITIES

PORT CITY ARCHITECTURAL

Port City has the expertise to assist our customers in taking an idea from concept to production. We use a variety of programs to render conceptual artwork for approval or 3D modeling:

- Adobe Products (Illustrator, Photoshop, etc.)
- SolidWorks & Mastercam (CAD Design)

Once a project is ready to kick off, we use a variety of techniques to create tooling for production. Our liquid photo-polymer process utilizes a Merigraph Hercules capable of producing 30" x 40" pattern plates. We also have a complete tooling department including (2) 4' x 8' Techno CNC Routers, (2) Bridgeport Milling machines & Hurco CNC. Whatever your needs we can help design and build the tools required to run your next project.



BRIDGEPORT MILLING MACHINE



TECHNO CNC ROUTER



PHOTO-POLYMER MACHINE



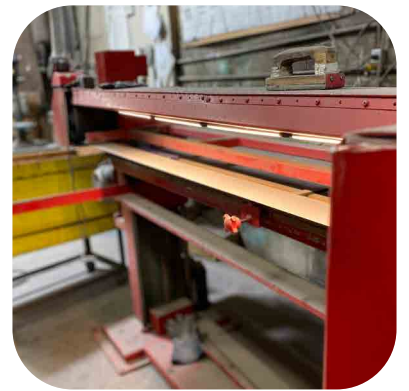
POLYMER TO CASTING PROCESS

MACHINING AND FINISH PREPARATION

PORT CITY ARCHITECTURAL

Our casting cleanup and prep department consists of a variety equipment used in preparing castings for final finishing. Our team consists of craftsmen, plain and simple. Most projects require a certain level of preparation or light machining before they move into finishing, and we have the tools and people to assist:

- (6) Drill & Tap Stations
- Wheelabrator Shot Blast
- 10' x 15' Sandblasting Enclosure
- (4) Belt Sander/Grinding Stations
- Buffing and Polishing Equipment
- Lathe Machining

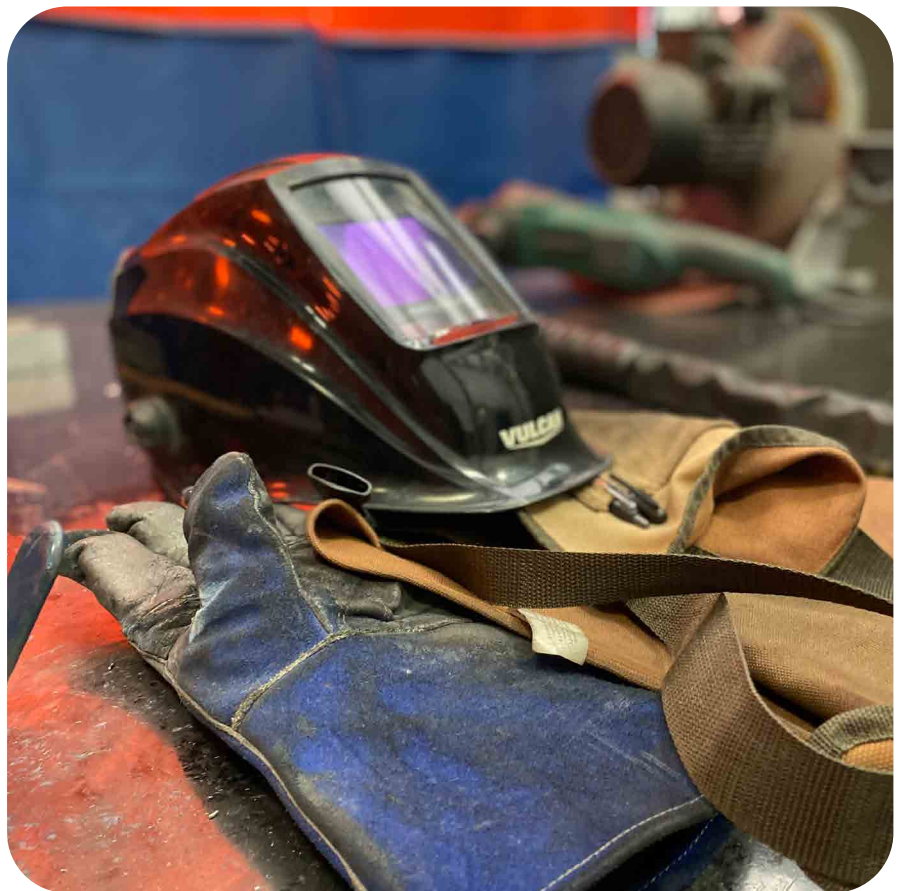


PRODUCTION WELDING

PORT CITY ARCHITECTURAL

Our welding department has years of experience in the sign industry. We utilize both MIG & TIG welding processes in the construction of our products. Our wide variety of stock extrusions and castings allow our team to fabricate solutions that are not only strong and durable, but aesthetically pleasing.

- Multimatic 215 Miller Welder
- Multimatic 255 Miller Welder
- Dynasty 210 Miller Welder
- Diversi-Tech Downdraft Table



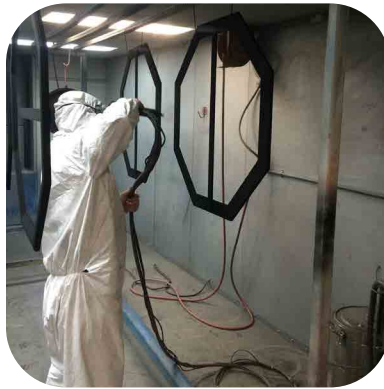
PAINT & POWDER COATING

PORT CITY ARCHITECTURAL

We have perfected the art of painting and finishing our products with the help of industry experts. We use only the finest primers, paint and powders to ensure that the coatings on our products look and perform as intended for many years. We are dedicated to the proper cleaning and surface preparation required to make sure coatings last. Our painters are artists that take pride in the finished work they produce. Port City's in-house paint and powder coating departments are equipped with state-of-the-art equipment that allow for short lead-times and quality control at every level. Don't believe us? Have a look for yourself, we don't hide our process or materials because we don't think our competitors can afford to offer you anything better. Call our customer service department for more information.

1-800-705-1446

- 14' x 10' enclosed wet coat spray booth & oven
- 15' x 10' enclosed powder coat booth and oven



DESIGN PROCESS

PORT CITY ARCHITECTURAL

Our in-house design team is here to assist you. You can send your design requests to graphics@portcitysignage.com and our team will get back to you promptly with a proof. Most of our design services are offered free of charge to provide you with accurate specifications drawing for approval by your committee of board.

If you have specific artwork requests, such as logo, we prefer a vector file.

Vectors
Vectors are based on mathematical formulas and can be scaled infinitely without any loss in quality. Every line and shape has a value that changes when the image expands.

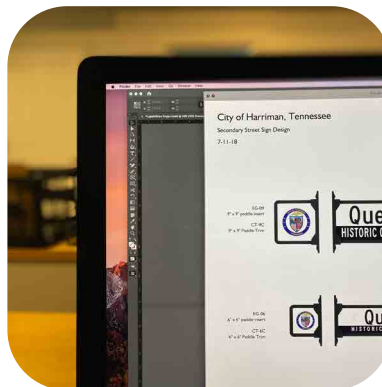
Bitmaps
Bitmaps rely on a series of square blocks called pixels, arranged on a grid. The quality of the images depends on the amount of pixels per square inch. The more pixels, the better the quality.

Acceptable File Types are: jpg with High Resolution (300ppi)
(Black and White .jpg files can be used to convert art to vector.)

Not sure if you have the correct art work?
No worries, send your file to graphics@portcitysignage.com and we can help!



DESIGN ART TO SEND TO CUSTOMER



CREATE PROOFS TO GAIN APPROVAL FOR PRODUCTION

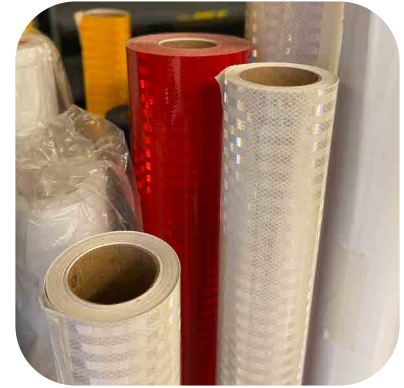


FINAL PRINTED PRODUCT

FULL SERVICE PRINT SHOP

PORT CITY ARCHITECTURAL

In the highly regulated traffic sign industry, the requirements for color and retro-reflectivity are strict. To ensure compliance with these exacting requirements, Port City has adopted a “whole-solution” approach. Our in-house sign printing service uses certified 3M wide format printers capable of printing a width of 60”. We use latex inks and the best substrates and films available in the industry. We utilize a flatbed Rolls Roller to apply vinyl to the finished substrate ensuring no bubbles or wrinkles in the finished product. If you are looking for a high quality printed sign that outperforms the competition? Look no further.



Maxmetal is an aluminum composite material comprised of two, pre-painted 0.15mm aluminum panels bonded to a solid polyethylene core. It’s lighter in weight and more durable than both MDO and solid aluminum panels, plus it resists scratching and denting better than wood panels.



High Intensity Prismatic Sheeting meets middle grade performance standards and ASTM D4956 Type IV. This reflective sheeting uses polycarbonate cube corner technology and is often used for reflective traffic and road signs. Performance warranted for up to 10 years

Diamond Grade reflective sheeting (DG3) meets ASTM D4956 Type XI. This highly reflective sheeting uses 100% efficient full-cube prismatic technology that reflects, almost 2x the amount of light back to its source as High Intensity Prismatic sheeting. Performance warranted for up to 12 years.



3M™ ElectroCut™ Film is a transparent, acrylic film with pressure sensitive adhesive for application over reflective sheeting (HIP & DG3). This material is highly transparent and gives equal or better retro-reflective performance than sheetings screened with transparent inks.

SHIPPING & PACKAGING

PORT CITY ARCHITECTURAL

Our shipping department doesn't consider the job done until you receive your project in good condition. We are meticulous when it comes to the details in how your order is packaged, including all hardware and instructions included on the order. We align ourselves with the best in the industry when it comes to logistics, and we leverage our volume to deliver you the best possible freight and shipping costs in the industry. We warehouse a significant amount of finished product in our warehouse so we can fulfill your order in the shortest possible time.





800-705-1446

**2350 SOUTH GETTY STREET
MUSKEGON, MI 49444**



MAJORMARKERS.COM



PORTCITYARCHITECTURAL.COM



SIGNATURESTREETSCAPES.COM