

Steel Fabricating and Finishing



ISO 9001:2015

PGI has 30,000 square feet dedicated to providing the steel fabrication requirements for your projects. Our fabrication department utilizes certified welders, skilled fitters, and dedicated inspection personnel to check all weldments throughout all stages of fabrication.

PGI regularly conducts pre-production and progress meetings across all departments involved on each project. This ensures that every step in the process is clear and each discipline understands your expectations and the requirements specified for your project. Our experienced team brings expertise in fabrication methodologies and can assist you with your project from material take-off through delivery.



Welding

- Welders are 3-G certified in multiple welding types:
 - Wire, Solid (GMAW) or Flux-Cored (FCAW)
 - Stick (SMAW)
 - Tig/Heli arc (GTAW)
 - 2-G certified in stainless (GMAW)
- Experienced with assorted grades of steel, including A36, A514, 1018, 1020, 1045, 4140, AR steels as well as many grades of stainless.
- All welds will receive, at a minimum, a visual inspection for conformance to AWS D1.1/ D1.6 (American Welding Society Structural Welding Code, Carbon/Stainless). When specified, other NDT inspections are available including dye penetrant, magnetic particle and x-ray testing.
- Post-weld stress relieving or annealing of higher carbon materials is available.

Surface Preparation & Painting

- Surface preparation may include a simple hand tool cleaning (SSPC-SP2) or a more aggressive sandblast cleaning such as a Commercial Blast (SSPC-SP6), Near White Blast (SSPC-SP10), or even a White Metal Blast (SSPC-SP5). PGI will prepare surfaces to your specifications or as per the paint manufacturer's recommendations.
- Our skilled paint technicians have experience with a variety of single and multi-coat paint systems and will apply your coatings per the manufacturer's specifications.
- When size permits, PGI utilizes a dedicated paint booth to minimize dust particles.

Powder coating is also available upon request.

Inspection

- All of our custom fabricated projects pass through a rigorous inspection process to ensure the final product is manufactured to our clients' specifications.
- Each project is inspected after every fitting stage, prior to welding. After welding has been completed, each weld is inspected per your project specifications for compliance with AWS D1.1/AWS D1.6.
- Blast profile as well as paint thickness are closely monitored to ensure a quality paint job is provided.

Assembly

- PGI employs technicians experienced in machinery and millwright work.
- PGI can offer trial-fitting of most assemblies before shipment to help ensure a smooth installation.
- Often for custom machinery, PGI can test run your machine before final acceptance (client is encouraged to participate).

The Single Source Solution for Custom Steel Plate

For fifty years, Precision Grinding, Inc. dba PGI Steel has been an integral supplier of custom manufactured steel products and services. PGI Steel maintains a robust carbon and alloy steel plate inventory. U.S. Government facilities, scientific research labs, OEMs, machine shops, aerospace and defense contractors, automation manufacturers, heavy industrial equipment manufacturers, DOE, DOD, filtration systems for our waterways and power plants, power transmission, medical equipment and supplies, and the food packaging industries have all come to rely on the quality and customer service PGI Steel offers.

Processed and Fabricated Components

Our continued re-investment into our business and processing equipment capabilities allows us to meet the ever changing and exacting demands of our customers.

Surface Preparation & Painting

Paint Booth

Surface preparation and painting services are an integral part of our one-stop shop concept. Upon completion of your machine base, robot pedestal or other fabricated part, we can complete the job with a single or multi-coat paint system. PGI's skilled technicians will apply the paint system of your choosing over a surface that has been properly prepared per the paint manufacturer's recommendations.



Utilizing our custom-built paint facilities, PGI can provide:

- Properly prepared surfaces per the standards established by The Society for Protective Coatings (SSPC).
- PGI utilizes Black Beauty® blasting media for the high-quality surface profile results as well as the environmentally friendly low free silica and low dust aspects.
- Single and multi-coat paint systems and colors according to your specifications.
- A covered and well-ventilated environment to minimize dust contaminants that may mar the finish.
- Coating products from the most reputable paint manufacturers in the industry.
- A rigorous inspection process to ensure the project is delivered to your expectations.