



Precision fabrication services for complex parts and assemblies

- Design and Engineering
- Prototype
- Fabrication
- Welding
- Fixtures and Tooling
- Specialized Painting and Coatings
- Heat Treating
- Production Runs
- Turn-key Projects

CAPABILITIES AND EQUIPMENT:

ENGINEERING AND DESIGN:

From existing CAD design or concept using Solidworks and AutoCAD.

SHEET METAL FABRICATION:

Precision press braking to 12 ft. and precision shearing to 3/8" thick X 10 ft. wide, plus plasma cutting, punching, notching, sawing, rolling and bending.

MACHINING:

Precision milling and turning of all metals, plastics, and ceramics for parts, fixtures, tooling and repairs.

We've invested in equipment that gives us unique capabilities:

Hydraulic 220-ton Numerically Controlled Press Brake with 12 ft. x 6.125" capacity with more than 50 top and bottom dies.

Hydraulic Numerically Controlled Guillotine with 10 x 1/2" thickness shearing capability.

Six Blanchard ground cast iron welding tables, each laser aligned and slotted for precision fabrication of large structures.

WELDING CERTIFICATIONS:

Vortex welders are NAVSEA/Military certified for the following metal types and processes:

Aluminum (5XXX series)

- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW)

Stainless Steel (316L / 304)

- Tungsten Inert Gas (GTAW)

High Strength Steels (HY 100, HY 80)

- Shielded Metal Arc Welding (SMAW)
- Fluxed Core Arc Welding (FCAW) Steel
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW)
- Shielded Metal Arc Welding (SMAW)
- Fluxed Core Arc Welding (FCAW)

Whether it's help in choosing materials or prototype-through-production attention, Vortex has the experience to handle any design, engineering and production project. Give us a call.

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