



WELDING CAPABILITIES



Sawyer Fabrication maintains quality and accuracy of MIG and TIG welding on various grades of carbon steel, stainless steels, aluminum and alloys. We retain expert welders who are highly skilled problem solvers capable of producing consistent welds for steel fabrication.

WELDING PROCESSES

- Shielded Metal Arc Welding (SMAW/Stick Electrode)
- Gas Metal Arc Welding (GMAW/MIG)
- Gas Tungsten Arc Welding (GTAW/TIG)
- Flux Core Arc Welding (FCAW)
- Submerged Arc Welding (SAW)
- Weld Overlay (WOL) – Aluminum Bronze
- Cladding
- Spray
- Stud

Oxygen Gas Welding

- Air Acetylene Welding
- Oxyacetylene Welding
- Oxygen/Propane Welding

Resistance Welding

- Projection Welding

Weld Types

- Butt Joint
- T-Joint
- Lap Joint
- Corner Joint
- Edge Joint

Project Types

- Piping
- ASME Vessel - R & U Stamp
- Heavy Weld
- Structural Weld

Materials

- Steel - all carbon and alloy steels
- Stainless Steel
- Duplex Stainless Steel
- Superaustenitic Stainless Steel
- Hastelloy
- Monel
- Incoloy
- Inconel
- Aluminum
- Bronze
- Copper Nickel Alloys
- Silver
- Cast Iron

Material Sizes

- Thickness: Thin gauge to 12 in.
- Maximum Weight: up to 30,000 lbs.
- Tolerance: Per print

CUT AND WELD CAPABILITIES

- Large Welding Bays
- Certified Welders
- Medium and Heavy Weld fabrications
- 10'x30' burn table with HD plasma capabilities to pierce up to 1" plate and 6" plate with oxy fuel
- 10'x40' burn table with HD plasma capabilities to pierce up to 2" plate and cut 3" with plasma and pierce up to 10" plate with oxy fuel

Certified Weld

- AWS D1.1 Structural Welding Code - Steel
- AWS D1.2 Structural Welding Code - Aluminum
- AWS D1.3 Structural Welding Code - Sheet Steel
- AWS D1.6 Structural Welding Code - Stainless Steel
- ASME Boiler and Pressure Vessel Code - R & U Stamps

Equipment List - Welding

- (6) Miller Dimension 652 weld machine
- (6) Miller 70 series wirefeeder
- (1) Miller Deltaweld 652
- (1) Miller 60 series wirefeeder
- (2) Miller Subarc DC 650
- (1) Miller Dimension 452
- (2) Miller Millermatic 251
- (1) Miller Millermatic 252
- (1) Lincoln Arc Welder (TIG)
- (1) Thermal Dynamics 152 Cutmaster
- (14) Certified Welders
- (1) ALLTRA Burn Table 10'x30'
- (1) ALLTRA Burn Table 10'x40'
- (1) Ultra-Graph Plate Burner
- (1) Rigid Threader
- (1) Marvel Iron Worker