



PREFERRED SOLUTION PROVIDER

SHOP & FIELD MACHINING, FABRICATION & MECHANICAL

OTC 
INDUSTRIAL TECHNOLOGIES

SHOP MACHINING

- Vertical Boring Mills to 204" diameter, 128" under tool holder
- Lathes to 70" swing over ways, 55" swing over carriage, 220"
- between centers, 456" with bed extension
- Horizontal Boring Mills to Ø7-7/8" spindle, X: 576", Y: 144", Z: 70"
- Blanchard Grinding to Ø60" and Surface Grinding to 24" x 144"
- Slotting to 18" in length
- CNC Turning Centers to 30" Swing, 80" length with 6.5" Hollow
- Bore Spindle
- CNC 3 Axis Milling Centers to X: 84", Y: 32", Z: 30"
- CNC Horizontal 3Axis Boring Mill Ø5" spindle, X: 93", Y: 81", Z:67"

SHOP FABRICATION AND WELDING

- ASME "S", "U" and NBIC "R" Stamp Certified
- SAW, SMAW (Stick), GMAW (MIG), GTAW (TIG) & FCAW welding processes
- Carbon, High Alloy and Stainless steels, Exotic Metals
- Structural design and fabrication
- Pressure vessel and tank fabrication and repair
- Piping system fabrication and repair
- Boiler tube replacement and repair
- Base metal repair in tubes, pumps, heat exchangers and valves
- Heavy weld build up on large parts
- Up to 150,000lb capacity weld positioners
- PWHT and Stress Relief procedures utilizing required methods
- 300+ Weld Procedures in accordance with ASME Sect. IX or AWS D1.1
- All welders are qualified in accordance with ASME Sect IX and/or AWS D1.1





SHOP MECHANICAL

- Motor and gearbox TDI, overhaul and repair
- Pump TDI, overhaul and repair
- Actuator (hydraulic/pneumatic/mechanical) TDI, overhaul and repair
- Valve TDI, overhaul, re-seating and repair
- Crushing equipment TDI, refurbishment and repair
- Conveying system TDI, refurbishment and repair
- Specialty equipment inspection and repair
- Ø1" to Ø110" I.D. induction heating capabilities
- Ø138" x 32ft long 30,000 lb Balancer
- Hydraulic torque wrench capability up to 11,000 lbs-ft
- 600 ton pressing capabilities
- Heavy machinery and equipment handling and setting
- Heavy rigging capabilities

ENGINEERING

- In house Engineering support for drawing development and revisions with third party P.E. Stamping
- Shop drawings and DXFs using AutoCAD.
- 3D Modeling and Finite Element Analysis with SolidWorks
- Special tool design, development and construction

QUALITY ASSURANCE

- Commitment to the highest quality standards by all staff
- NBIC - National Board Inspection Code
- ASME Codes-Sections I, II, IV, V, VIII, IX and B31.1 specializing in requirements for manufacturing, repair and alteration of power boilers, pressure vessels and piping
- Cause and corrective action program with NCR reporting
- Process driven quality systems with full document control capability
- NIST compliant calibration recall program
- Hydro, pressure, leak and vacuum pressure testing
- Load testing per ASME BTH-1
- Certified weld inspectors in accordance with AWS QC1
- In house and third party NDE to include VT, PT, MT, UT and RT

PRECISION MEASUREMENT

- O.D. Mics up to 48" and I.D. Mics up to 144"
- Brunson Optical Measuring Equipment
- Leica AT960 Laser Tracker
- Leica Absolute 8725 CCM Arm with RS5 scanner
- Hardness testing equipment
- Surface profilometer
- Gauges for pressure and leak testing

MATERIAL CUTTING

- CNC pattern torch capabilities 10ft x 20ft table
- Up to 1" thick plasma cutting and up to 6" thick flame cutting
- Horizontal CNC band saw with 14" capacity
- Vertical CNC mitring band saw with 22" capacity

PREDICTIVE MAINTENANCE

- Thermography
- Vibration analysis
- Ultrasonic testing
- Dissolved gas analysis

FIELD MECHANICAL

- Motor inspection
- Gearbox TDI, overhaul and repair
- Pump TDI, overhaul and repair
- Actuator (hyd, pneu, and mech) TDI, and repair
- Valve TDI, refurbishment and repair
- Crushing equipment inspection and repair
- Conveying systems inspection and repair
- Turbine overhaul
- Specialty equipment and system inspection and repair
- Heavy machinery and equipment handling and setting
- Heavy rigging capabilities
- Hydraulic torque wrench capability up to 11,000 lbs-ft



FIELD WELDING

- ASME "S", "U" and NBIC "R" Stamp Certified
- SAW, SMAW (Stick), GMAW (MIG), GTAW (TIG) & FCAW welding processes
- Carbon, High Alloy and Stainless steels, Exotic Metals
- Structural fabrication
- Pressure vessel and tank fabrication and repair
- Piping system fabrication and repair
- Boiler tube replacement and repair
- Base metal repair in tubes, pumps, heat exchangers and valves
- PWHT and Stress Relief procedures utilizing required methods
- 300+ Weld Procedures in accordance with ASME Sect. IX or AWS D1.1
- All welders are qualified in accordance with ASME Sect IX and/or AWS D1.1

FIELD MACHINING

- Portable milling up to 84" travel
- Portable boring up to Ø50" x 144" length
- O.D. shaft machining up to Ø48"
- Flange facing up to Ø264"
- Key cutting, line boring and stud removal
- Custom field machining applications and equipment design
- Piping system fabrication and repair

FACILITY

- 165,000 Square Feet
- 85 ton lifting capacity, 30ft under hook
- Fifteen acres of outside fabrication, lay down and storage area
- Two 100,000LB fork trucks
- 20ft x 20ft x 15ft car body stress relief oven
- On site rail spur



SHOP SERVICE

- Large capacity manual and CNC machining capabilities
- Heavy fabrication and weld build up capabilities
- Mechanical TDI and repair
- Material cutting
- Engineering support
- Quality Assurance and precision measurements
- Complex project management
- 24/7 and emergency service available

FIELD SERVICE

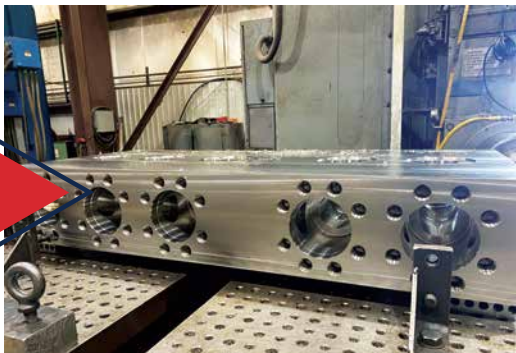
- On-site mechanical inspection and repair
- On-site fabrication and welding capabilities
- In place machining capabilities
- Engineering support
- Quality Assurance and precision measurements
- Large project management
- 24/7 and emergency service available

EQUIPMENT AND INDUSTRIES SUPPORTED

- Crushers, mills and conveyors
- Rotating Equipment; gearboxes, compressors and pumps
- Hydraulic Equipment
- Process Piping
- Mining
- Petrochemical
- Forges and Metal Production
- Power Generation
- Specialty Processes

NEW EQUIPMENT SALES

- \$3M inventory - electric motors, drives and parts
- Fractional - 1,000HP in stock
- 208-230/460V, 2300/4160V inventory
- Complete drop in replacements and conversion capabilities



CONTACT US

Kingman, Arizona | 928-757-8424