



BENDER CCP

ENGINEERED ROTATING EQUIPMENT SPECIALISTS



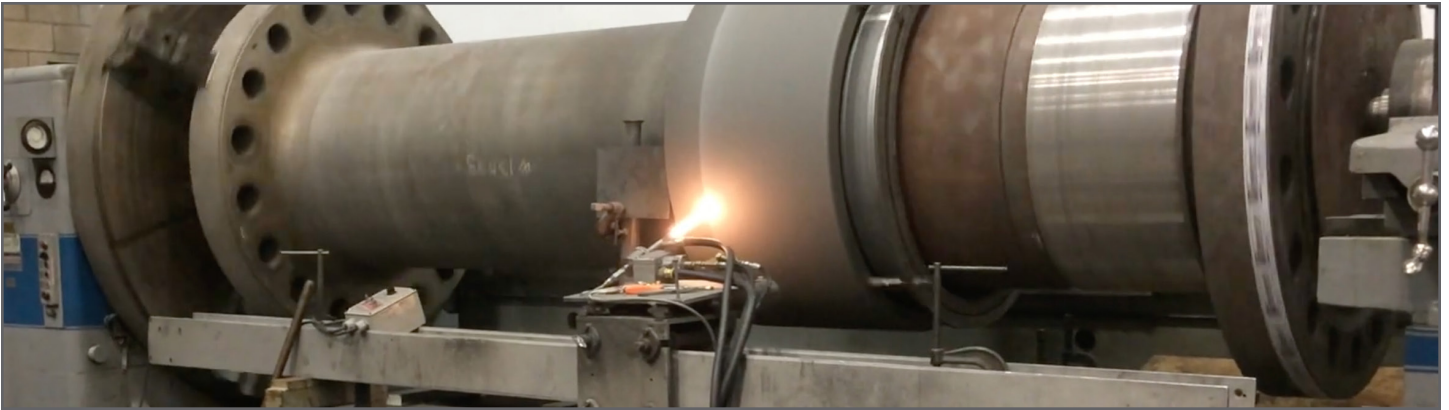
UNICO MECHANICAL

ENGINEERED ROTATING EQUIPMENT SPECIALISTS



PREMIERE MACHINE SHOP SERVICES
THERMAL SPRAY





Company Overview

Bender CCP is a leading full-service providers of engineered rotating equipment repair and machining services in the US. With a reputation built on decades of providing reliable, quality services in our facility or at the customer site, Bender CCP is a trusted partner to our customers. They depend on the expertise of our technicians to provide everything from turnkey overhauls, to routine maintenance, to highly-critical emergency repairs. We work around the clock and in the most demanding conditions. We bring deep expertise across varied customer industries from oil and gas, chemical, mining and marine to pulp and paper and steel.

Bender CCP is proud to help customers extend the life of their critical rotating equipment no matter how large or complex the project. We offer unmatched capacity for a broad range of repair, thermal spray coating, field services, machining and grinding, welding and inspection services. Customers count on our team to handle every project with the highest integrity and in the most efficient manner which helps them ultimately lower the total cost of ownership. Most importantly, we help customers keep their operations running smoothly.

Our History

Privately owned, Bender US was purchased in 2008 by Michael and Randy Potter. In 2010, with a goal of expanding the company's field service capabilities, the brothers purchased California Centrifugal Pump (CCP), and relocated it to Vernon where it would operate under one roof with Bender US. With each company bringing decades of rotating equipment experience and a seasoned team of expert technicians with complementary skills, the companies together offered an unmatched capacity and, in 2015, were merged to become Bender CCP, Inc.

What Sets Us Apart

- Bender CCP has a 150 year history providing Thermal Spray services and is a founding member of the Thermal Spray Society.
 - We bring the best technical expertise available with a team of technicians with decades of experience in industries ranging from oil and gas, marine, chemical to water, mining and others.
 - Our capacity is unmatched with 5 facilities along the Pacific Coast, an 80-ton lift capability and the "one-stop shop" broad range of services we can provide. Our customers trust us every day to handle jobs of any scale or complexity efficiently and safely.
 - A reputation built on integrity, quality and responsiveness for every project. We handle everything from routine service to highly critical emergency repair service calls at any hour of the day that requires immediate, specialized expertise on-site. With two shifts running we deliver faster turn-around as normal business that no other shop can deliver.
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Thermal Spray

A Leader in Thermal Spray Technology - Providing In-Shop and On-Site Service

With experience in the development and application of thermal spray coatings that spans half a century and extends around the globe, Bender CCP service, technical expertise, and performance are unsurpassed. Bender CCP coatings are purpose-built to optimize the surface performance characteristics for a specific application—wear-resistance, thermal barrier, corrosion resistance, lubricity, conductivity, traction, release, and so on. Our thermal spray coatings can help extend your components operating time between scheduled maintenance, lower repair costs, increase yield, ensure quality, and “engineer out” component failure. Bender CCP long-standing pre-eminence in the field of surface technology means we handle the most demanding jobs routinely with the least amount of downtime. Bender CCP utilizes approved Military Standard “**Mil Std 1687-A and Mil Std 2138**” for thermal spray repairs and new component manufacturing.

Bender CCP is a member of the Port of San Diego Ship Repair Association and performs component repair work using thermal spray on both Commercial and Military Vessels. Bender CCP is American Bureau of Shipping (ABS) approved for thermal spray coatings. Bender CCP has an ABS “type” endorsement for thermal spray coating for ship board components.

HVOF - PLASMA - ARC SPRAY - FLAME SPRAY

Over 200 High Performance Coatings Including:

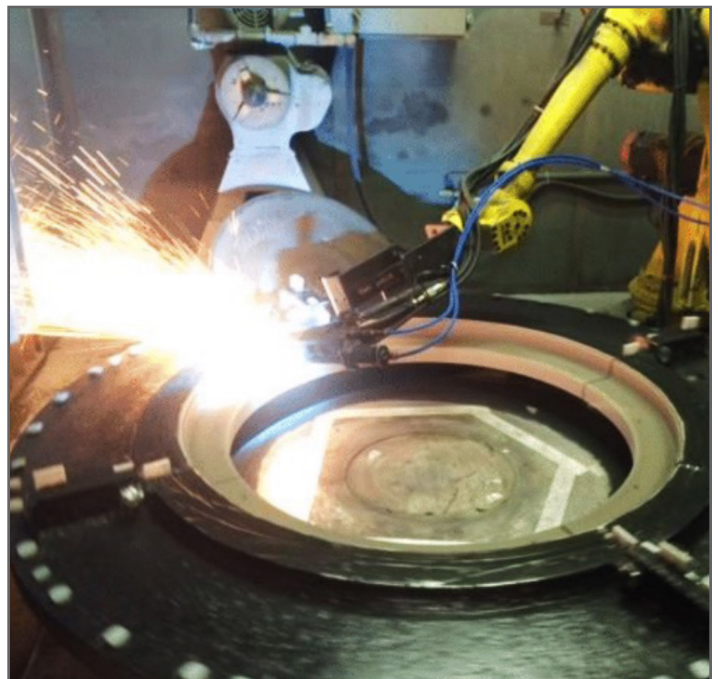
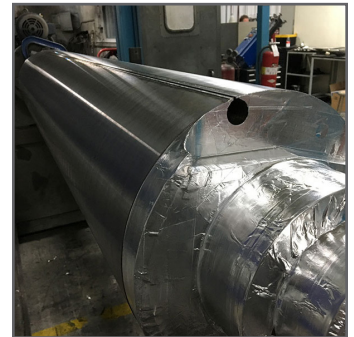
- Thermal Barrier Coatings
- Tungsten Carbide
- Hard Face
- Steam Path Repairs
- Hastalloy
- Chromium Carbide for Steam

Turbine Blading

- Release Coatings for Converting, Gluing, Paper, Film and Plastic
- Water Resistant - Corrosion and Erosion Resistant Alloys
- Traction - Lubricity efficiency and Friction reduction
- Conductivity – Cathodic Protection

Industries We Serve Include:

- Power Generation
- Petrochemical
- Paper and Printing
- Industrial Gases and Gas Transmission
- Steel Production
- Marine
- Manufacturing
- Food Processing
- Semiconductor



CERTIFICATIONS & QUALIFICATIONS

<p>Quality Management System</p>	<ul style="list-style-type: none"> • ISO 9001-2015 QMS Certified • NAVSEA Standard Item 009-04 Compliant • 2019 QMS Audit Compliant - Port of San Diego Ship Repair Association
<p>Safety Management System</p>	<ul style="list-style-type: none"> • OHSAS 18001 Compliant
<p>Welding and NDT</p>	<ul style="list-style-type: none"> • Level III Examiner oversight • NAVSEA SWRMC approved IAW MIL-STD-248 • Qualified & Certified American Welding Society (AWS), American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code (BPVC) and NAVSEA MIL-STD-248 • R, U, & S Stamp Holder
<p>HVOF Thermal Spray</p>	<ul style="list-style-type: none"> • NAVSEA Approved Facility and Procedures - MIL-STD -1687-A and MIL-STD-2138 for Thermal Spray Repairs and New Component manufacturing • American Bureau of Shipping (ABS) Approved Facility and Procedures
<p>Port of San Diego Ship Repair Association</p>	<ul style="list-style-type: none"> • Corporate Member
<p>MSR Approved Vendor for:</p>	<ul style="list-style-type: none"> • General Dynamics NASSCO • BAE Systems San Diego Ship Repair • Huntington Ingalls Industries, Continental Maritime of San Diego • Pacific Ship Repair & Fabrication • Marine Group Boat Works
<p>The Society for Protective Coatings (SSPC)</p>	<ul style="list-style-type: none"> • Corporate Member, Council of Facility Owners (CFO) • NBPI Certified Coatings Inspector
<p>National Association Corrosion Engineer (NACE)</p>	<ul style="list-style-type: none"> • Level III Certified Coatings Inspector



We Repair OEM Equipment such as:

Flowserve, Sulzer, EBARA, ITT Goulds, Floway, Union, United, Fairbanks Morse, Patterson, Worthington, Dresser, KSB, Bingham, Byron Jackson, Layne, Peerless, Westinghouse, Pacific, Deval, Moyno

Pump Repair Procedure

1. Match mark mating components, and take pictures
2. Inspect for improper clearances, corrosion – erosion, flow issues, cavitation, damage
3. Clean and NDT parts as needed
4. Take measurement and runouts
5. Determine upgrades and repairs needed
6. Balance the rotating element to 4w/n
7. Assemble pump, paint and tag

Modifications and Improvements

1. Conversion to Mechanical Seals from Packing
2. Installation of Labyrinth Seals and Bearing Isolators
3. Change in Metallurgy (Nitronics, 17-4, etc)
4. Bearing Upgrade (Vespel, Thordon, etc.)
5. Wear Resistant Coatings
6. Epoxy Coatings

Thermal Spray

1. Shaft Refurbishment
2. Ceramic Coating for Bearing Rears
3. Chrome Replacement Coatings
4. In-house Babbitt Bearing Refurbishment
5. Hardfacing for Extreme Service Environments

Services

1. Routine Maintenance Onsite
2. Troubleshooting
3. Replacement Parts
4. Installation and Removal
5. Regrouting
6. Rebuild Service

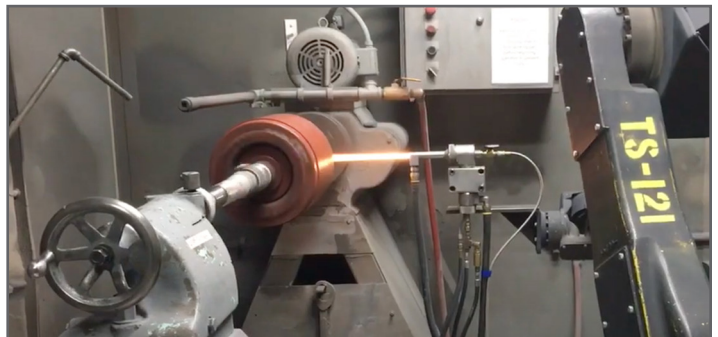
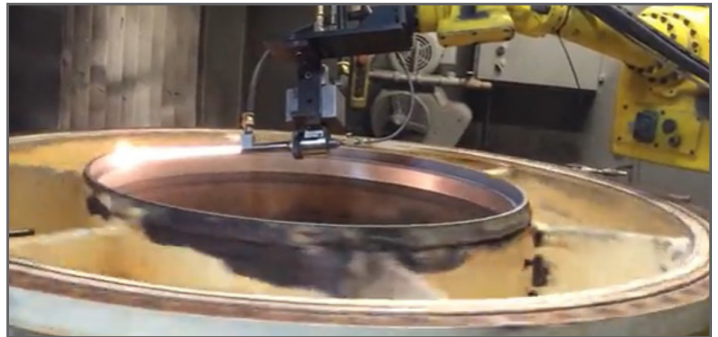
Capacity

1. 50 Ton Lifting Capacity
2. Machining to 17 feet in Diameter - 30+ Feet Length
3. OD and ID Grinding for Precision
4. 100K SQ/FT
5. Ability to Machine Large Discharge Heads

Parts:

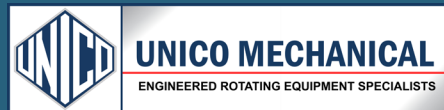
Wear Rings, Pump Shafting, Stuffing Boxes, Replacement Impellers / Bowls, Bushings, Baseplates, Couplings, Fasteners

With extensive experience in rebuilding all types of equipment Bender is prepared to take on even the most difficult projects. We look forward to working with you on your bad actor pumps.



323-232-2371

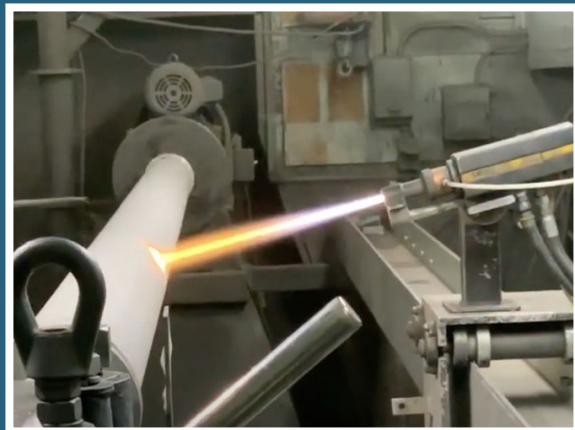
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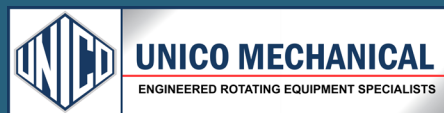
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SHOP LOCATIONS: Benicia, CA • Corona, CA • Kent, WA • San Diego, CA • Vernon, CA



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