

## Equipment Serviced & Repaired with Uptime in Mind

Anderson Process has decades of experience servicing industrial pumps and rotating equipment. With a robust inventory of OEM parts at our disposal, we are uniquely positioned to deliver superior refurbishment and aftermarket services for even the most complex liquid process equipment challenges. As an authorized service center for many of the industrial process market's top rotating equipment manufacturers, our technicians provide the expert, hands-on service needed to get equipment back on-line quickly and to keep your operation running as efficiently and as long as possible.

### Repair Services

- ▶ Comprehensive Inspection
- ▶ OEM Repair & Rebuild
- ▶ Bearing Replacement
- ▶ Heat Exchanger Refurbishment
- ▶ Impeller Trimming & Balancing
- ▶ Machining & Fabrication
- ▶ Mechanical Seal Repair & Upgrades
- ▶ Sanitary Pump Re-manufacturing
- ▶ Meter Calibration
- ▶ Motor Testing
- ▶ Root Cause Analysis
- ▶ Sandblasting & Painting
- ▶ Shaft Alignment & Refurbishment
- ▶ Skid System Refurbishment
- ▶ Hydrostatic Testing
- ▶ Run testing up to 100 HP



### Field Services

- ▶ Laser Alignment
- ▶ Meter Calibration
- ▶ On-Site Repair
- ▶ Replacements & Retrofits
- ▶ Root Cause Analysis
- ▶ Start-up & Training
- ▶ Troubleshooting
- ▶ Vibration Analysis

### Exchange Programs

- ▶ API Pump Gearboxes
- ▶ ANSI Pump Power Ends
- ▶ Mechanical Seals
- ▶ Pitot-Tube Pumps
- ▶ Sanitary Circumferential Piston Pumps
- ▶ Shaft Assemblies
- ▶ Vacuum Pumps & Blowers



### Planned Maintenance & Audits

- ▶ Equipment Surveys
- ▶ Flow Measurement
- ▶ Laser Alignments
- ▶ Oil & Filter Changes
- ▶ Oil Analysis
- ▶ System Upgrades
- ▶ Troubleshooting
- ▶ Vibration Analysis

### Custom Skids & Fabrication

- ▶ 2D & 3D CAD Drawing
- ▶ Control Panels
- ▶ Filter Systems
- ▶ Fluid Fill Systems
- ▶ Pump Systems
- ▶ Start-Up & Training
- ▶ System Design
- ▶ Welding & Painting



# The Three Step Approach...

Equipment sent to our shop goes through an extensive and consistent repair process to ensure the best possible performance:

1

## Inspection

Upon arrival, units undergo a series of tests to determine problem areas and performance issues. The equipment is then disassembled so our technicians can evaluate every component in need of repair or replacement. All integral parts are photographed and documented, including oil/sludge build up, varnishing of components, deterioration of wear items, and mechanical damage. The customer is provided with a detailed inspection report and quote so they can determine whether to move forward with repairs or replacement.



2

## Repair

Our process certifies all machined surfaces that do not require rework or replacement are cleaned and polished to remove build-up. We employ various means (parts washing, ultrasonic cleaning, baking, sandblasting or bead blasting) to guarantee all fluid components function properly. Units are repainted to the manufacturer's specified color with prime & topcoat, epoxy paint or powder coat.

During the reassembly, components are set and torqued to OEM specifications. Standard wear items (bearings, seals, vanes, diaphragms, gaskets, springs, or filters) are replaced on pumps overhauled by Anderson Process regardless of the size or manufacture of the unit.

3

## Testing

After repair, units undergo a testing process where potential running conditions can be explored and documented. Measurements such as flow, pressure, running temperature, vibration, and vacuum level are documented continually through the testing, ensuring that the repairs were successful and the unit is ready for return to service. Based on the type of equipment, a variety of testing services are performed:

**Units with motor:** Run test and performance checks at shut-off, middle of pump curve, and wide open.

**Units without motor:** Hydrostatic testing up to 1 hour depending on product.

**Vacuum pumps:** Run test up to 4 hours following manufacturer's specifications.

**Meters:** Tested and calibrated using water or mineral spirits to within 1% if applicable.

**Blowers:** Run test up to 30 minutes following manufacturer's specifications.

### Markets Served

We serve a variety of markets, including:

- ▶ Automotive
- ▶ Chemical
- ▶ Food & Beverage
- ▶ General Industrial
- ▶ Paints & Resins
- ▶ Pharmaceutical
- ▶ Power Generation
- ▶ Pulp & Paper
- ▶ Water & Wastewater

### Equipment Served

Anderson Process is capable of repairing virtually all pumps and related equipment, including but not limited to:

#### Centrifugal Pumps

- ▶ End Suction
- ▶ Magnetically Driven
- ▶ Multi-Stage
- ▶ Self-Priming
- ▶ Split-Case
- ▶ Submersible
- ▶ Vertical
- ▶ Pitot-Tube

#### Positive Displacement Pumps

- ▶ Circumferential Piston
- ▶ Diaphragm
- ▶ Gear
- ▶ Metering
- ▶ Piston & Plunger
- ▶ Progressive Cavity
- ▶ Screw
- ▶ Vane

#### Process Equipment

- ▶ Electric Motors
- ▶ Flow Meters
- ▶ Gas Compressors
- ▶ Gearboxes
- ▶ Heat Exchangers
- ▶ Mechanical Seals
- ▶ Mixers
- ▶ Vacuum Pumps & Blowers
- ▶ Valves
- ▶ Screens & Presses

### Factory Authorized Service Center

Ampco Pumps  
Company

Atlas Copco

Blackmer

CORNELL  
EFFICIENT BY DESIGN

GRISWOLD

xylem  
Let's Solve Water

GUSHER  
PUMPS  
A RITTMAN COMPANY

Hayward Gordon

Sundyne

THOMAS  
PUMP

IR Ingersoll Rand

WILDEN

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