

Hydraulic Rebuilding / Chrome Plating

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Experience at Work for You

With over 30 years of experience—Phillips is a proven resource for chrome plating and hydraulic rebuilds. Electro-chrome plating is a benefit to any industry that uses hydraulic cylinders. The chrome application restores and protects the surface of a cylinder rod, increasing lubricity, oil retention, durability and adding wear corrosion and heat resistance. Re-chroming an existing rod is generally more cost efficient than purchasing a new one. We are equipped with two chrome tanks one of which is a deep tank and capable of plating rods up to 32' in length and 18" in diameter.

We can OD plate cylinder rods and sleeves. Chrome hardness ranges up to 45 kfg with a chrome hardness guarantee. We also have external grinding capabilities and can strip thermal or "spray-on" chrome as well.

In addition to plating, we can completely service and custom manufacture a wide variety of hydraulic cylinders, pumps and valves, across many industries.



Quality Chrome Plating, Hydraulic and Machinery Rebuild Specialists

Services

- Industrial Chrome Plating
- Hydraulic Pump & Valve Rebuilds
- Hydraulic Cylinder Repair
- Custom Cylinder Manufacturing
- Machining & Welding
- Parts & Consignment Sales
- Component Service Exchange
- Equipment Rebuilds & Reconditions
- Custom Fabrication
- Used Mining Equipment Consultants

Highlights

- Serviceable Inventory
 - 24 hour phone support
- Component Service Exchange
- On-site Delivery & Technical Assistance
- Turnkey Service Provider
- Nationwide / Global Service and Support
 - U.S. Service Centers in:
WV, KY, TN, CO
 - Global locations:
U.S., China, Australia, S. Africa

Phillips S.U.I.T.E. of Experience—Over 30 Years of Service



Surface

With fabrication facilities across the U.S. and around the world we are positioned to supply replacement parts and rebuilds to keep you up and running.



Underground

Over 30 years of experience in the underground environment—our repairs are tested and proven in the most rugged conditions.



Industrial

Our goal is to provide the highest level of performance for the clients we serve. It is our passion to help you get the best return on your investment.



Transportation

Our background is rebuilding and repairing equipment on the move. From excavating and hauling—to other specialized equipment, we will keep you moving.



Energy

Our headquarters is in the heart of one of America's richest energy resources. Our proximity and years of experience in this sector—make Phillips a good fit to keep you in production.

The Chroming Process

For Hydraulic Cylinders, Cylindrical Parts (Steel Rollers, Rods, Tubes) and Sleeves

Incoming Inspection

Every cylinder (roller, rod or tube) is inspected to determine the root cause of the problem. If repairable, a Scope of Work (SOW) is written outlining the repair process. The customer is sent the SOW detail and associated costs.

Grinding

The cylindrical components are placed in a centerless grinder and then belt sanded for clean up. If holes or scratches are present on its' surface, an arc welder is used for repairs.

Cleaning

The parts are then cleaned with mineral spirits and afterward sections that are not to be plated (eye, threads, etc.) are thoroughly concealed.

Plating

The plating stage begins and is monitored continuously until the process is completed. This ensures the highest quality coating while minimizing the repair time.

Quality Check

Each piece is rinsed, belt sanded, and measured with a micrometer. This process ensures that each component is finished to the desired specifications.

Shipping

Rebuilt cylinders (and/or components) are then packaged to ensure blemish-free transport via our on-site delivery fleet.

The Re-Rod Process

For Hydraulic Rods, Cylinders and Sleeves

Incoming Inspection

Every cylinder is inspected to determine the root cause of the problem. When the rod, seal, bushings or eyes are damaged beyond repair, a Scope of Work (SOW) is written outlining the replace process. The customer is sent the SOW detail and associated costs.

Phillips can build a new rod including:

- Eyes
- Threads
- Bushings
- Bearings

Phillips can repair or rebuild the cylinder housing including:

- Ports
- Housing
- Pressure tubes
- Bolt holes
- Seals



Headquarters

367 George Street
Beckley, WV 25801
+1-800-733-1521
www.phillipsmachine.com

US Offices

Phillips Tennessee +1-423-869-4737
Phillips Colorado +1-888-874-9900
Phillips West Virginia +1-800-733-1521
Phillips Kentucky +1-606-248-4711

Global Offices

Phillips Australia +27-13-246-8500
Phillips South Africa +27-13-246-8500
Phillips China 018609512555
13614778899