



Industrial Hard Chrome Plating

Action Hydraulics owns a chrome plating facility complete with grinding and polishing equipment. This vertical integration, coupled with economies of scale, allows us to deliver repairs and remanufacturing work to our customers faster and more cost effectively than our competition.

In the hard chrome plating process chrome is deposited on a base metal resulting in an extremely hard surface that is wear resistant and that provides some degree of corrosion resistance. Typically hard chrome plating is used to reclaim worn or damaged parts or to extend the life of new parts.

The porous nature of hard chrome translates into it having an excellent lubricating value. This coupled with the fact that chrome is extremely hard (measuring 68-72 Rockwell), means that chrome plating lends itself well to hydraulic applications. However our experience extends past the hydraulic repair industry. We serve customers in all of the following markets:

Hydraulic
cylinder repair

Hydraulic cylinder
manufacturing

Vinyl and rubber
injection

Printing

Plastic moulding

Roll forming

We can provide varying degrees of chrome build up:

- We can flash coat [for rollers and shafts that are not subject to too much abrasion, and for slight corrosion protection]
- We can build up heavy deposits to repair severe wear or damage

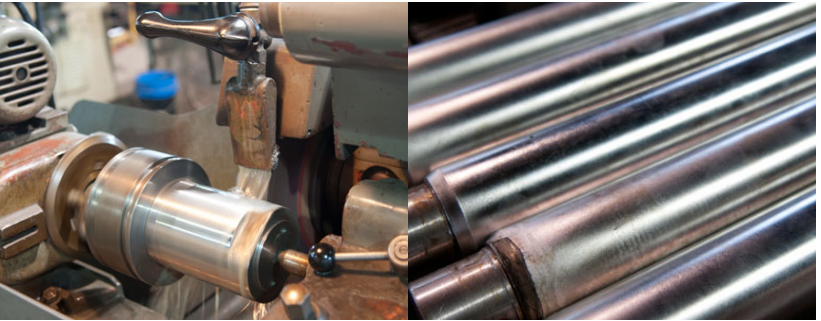


We are fully capable of grinding and polishing after plating to return parts to their size within specified tolerances.

- We can repair damaged journals by rebuilding to original size through an intricate process of grinding, chrome build up and grinding back to original size. All threads and keyways are repaired as necessary.
- Cylinder rods are repaired through a process of grinding and chroming. Rods are ground undersize, chrome plated oversize and then reground to specification and polished.
- We have salvaged countless hydraulic valves and pumps by returning spools and shafts to OEM specifications.
- When it is critical to chrome the I.D. of cylinder shells, we can hone, chrome and finish hone. A variety of finishes can be provided to meet the specifications of the hydraulics, pneumatic, plastic injection and blow moulding industries.
- In cases where existing chrome is damaged beyond repair, we are capable of stripping chrome from the part in questions, before it is refinished.

Parts that we commonly plate and repair include:

- Hydraulic cylinder rods
- Valve spools
- Plungers
- Piston rings
- Tools and dies
- Printing wear roll surfaces
- Motor shafts
- Internal diameter of cylinder shells



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