

HYDRAULIC SERVICE AND CYLINDER REPAIR

- Transport - Pick Up and Delivery
 - Manufacture
 - Repairs
 - Sales
 - 24Hrs / 7 Days
- Hardchroming
 - Grinding
 - Honing
 - Linishing
 - Test Facility



For information regarding Hydraulics please contact:

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THE SERVICE

Hydraulics and associated components are an essential and integral part of industry. Over the last 40 years, Hardchrome Engineering (HCE) has gained extensive experience in the repair, refurbishment and reclamation of hydraulic components.

Recent installation and commissioning of expanded engineering and testing facilities at HCE North Clayton has integrated this 40 years of hydraulic refurbishment experience into our existing material enhancement and surface engineering operations and created Victoria's only "one-stop" hydraulic refurbishment service.

HCE have very large honing, machining, and engineering facilities that are operated by experienced and skilled tradespeople and supported by internal calibrated and certified testing facilities, for the testing and certification of all assembled work.

If downtime is critical to your business call HCE 03 9561 9555 for immediate pick up and refurbishment of your large and small damaged hydraulic components under the one roof.

TECHNOLOGIES

Hardchrome Engineering has a broad range of processes and technologies which are constantly being improved and expanded. Technologies include:



Hardchrome

Hard Chrome

Hard chrome plating has been the standard for wear resistant coatings for many years. Its' hardness (70~72HRc), corrosion resistance, low coefficient of friction and the ability to rebuild has made it the ideal for many industries.



Neo Chrome

Neo Chrome

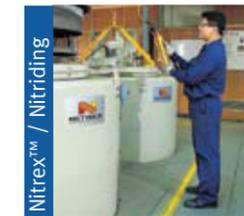
HCE introduced internationally proven, technology into Australia 1987, to provide the Steel and Aluminium rolling industry superior coatings on work rolls to give far higher product quality, greater roll life and less mill down time.



Electroless Nickel

Electroless Nickel

Uniform coating thickness, high hardness, excellent corrosion resistance and low fractional properties make this coating ideally suited to a wide range of applications.



Nitrex™ / Nitriding

Nitrex™ / Nitriding

Computer controlled nitriding ensuring reproducibility, corrosion resistance, consistent quality, non-brittle white layer, less dimensional growth and corner chipping. Fast process time, batch reports and conformance certificate available.



Laser Cladding

Laser Cladding

Refurbishment or protection of engineering components for applications and environments that are associated with wear and corrosion, via cladding with superior engineering materials. Alloy powders are introduced by nozzle feeder, melted by the Nd:YAG LASER and welded to the substrate with minimal dilution of the substrate material.



Vacuum Furnace

Vacuum Heat Treatment

Computer controller vacuum heat treatment providing low distortion, clean oxide free surface and short cycles. Case Hardening, Through Hardening, Stress Relieving, Normalising and Annealing with full metallurgical support.



Laser Cladding

Grinding Linishing and Super Finishing

Large in house capacity - Internal
- External - Centreless grinding
- Fast turn times - Precision tolerances
- Mirror finishes to specification
- Low Cost production runs and one off availability.



TD Process

TD Process

TheTD Process is a high temperature thermo-reactive diffusion process that creates a vanadium carbide surface on high chromium (typically D2) tool steels. The resultant case created is approximately 0.010mm deep, has a surface hardness around 4,000HV (4 times greater than hard chrome) and has far greater tenacity and adhesion compared to alternate PVD coating based techniques.

