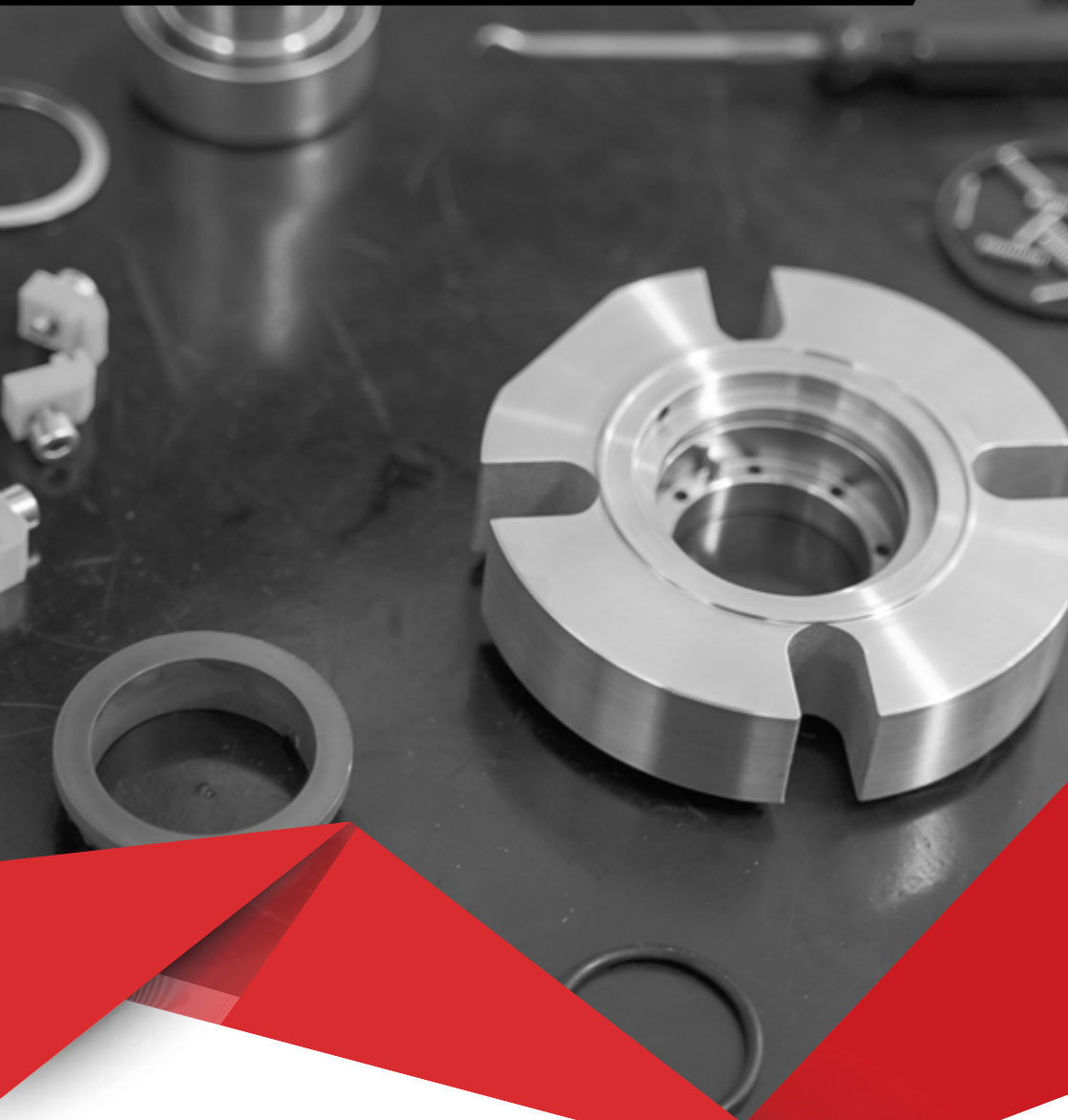




MECHANICAL SEAL REFURBISHMENT

Brochure





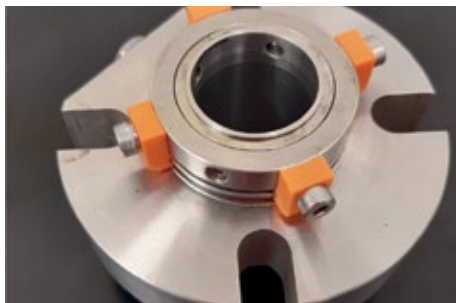
For the past 100 years, customers have been visiting over 114 of our locations across Australia. These workshops, branches and service centres are a fixture in the Australian industrial landscape, whether as BSC, CBC, Hardy Spicer, SiL, SpecFast, AIP, CRAM or any of the other businesses owned by Motion Asia Pacific. Now, all these brands are integrated as part of Motion Australia.

Motion Australia delivers a world-class customer-first approach to everything we do. This has firmly established our businesses as the leader in the market, providing excellence and expertise in industrial products, solutions and services.

Our engineering and design capabilities are second-to-none. With our state-of-the-art in-house workshops, we offer end-to-end design, production, and remediation capabilities, which are unmatched across Australia.

We are invested in our people, systems, and processes; and are proud to keep our customers in motion, every day of the year.

OUR PROCESS



1. RECEIVED MECHANICAL SEAL FROM CUSTOMER

Seal checked first for any contaminant media and if present disinfected prior to disassembly. New setting clips are installed.



2. DISASSEMBLY & INSPECTION OF ALL COMPONENTS

All parts are visually inspected and measured for wear and tear/damage.

| SEAL Mechanical Seal Service Sheet | |
|------------------------------------|--------------------------------|
| Technician | _____ Date _____ Job No. _____ |
| Customer | _____ Seal Type _____ |
| Customer Ref | _____ Machine _____ |
| Stock Code # | _____ |
| Operating Pressure | _____ |
| Media | _____ |
| Environment | _____ |
| Media | _____ |
| Environment | _____ |
| Cladding/Insulation | _____ |
| Gaskets | _____ |
| Other Collar | _____ |
| Spring | _____ |

3. JOB CARD & CONDITION REPORT

Information recorded and quoted to customer.



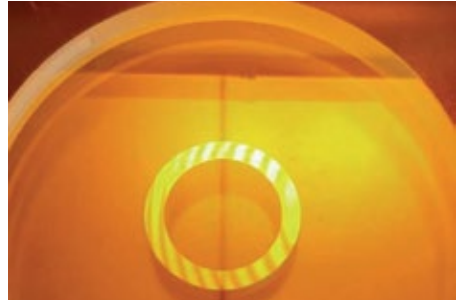
4. ULTRASONIC CLEANING OF COMPONENTS

Ultrasonic cleaning is a very efficient form of cleaning where dirt particles are completely and rapidly removed from a variety of mechanical seal components.



5. LAPPING & POLISHING

Rotary and stationary faces are lapped and polished to industry standards.



6. OPTICAL FLAT & MONOCHROMATIC LIGHT

All lapped faces are checked using an optical flat with a monochromatic light source for surface finish and flatness.

LIGHT BANDS SHOWING
FLATNESS ACCURACY

A flat surface will show light band patterns.

Straight parallel bands show a perfectly flat surface. Flat to within 1 millionth of an inch.



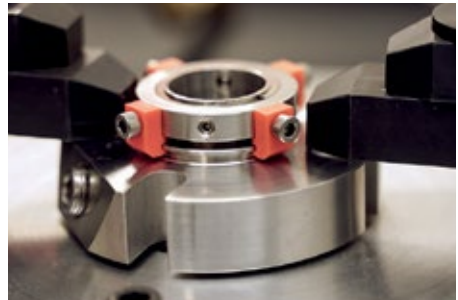
7. SEAL ASSEMBLY

O-rings / Gaskets are replaced with new.

Fasteners replaced.

Springs are inspected and if they show any signs of wear/damage are replaced.

New setting clips are installed.



8. PRESSURE TESTING THE SEAL

Cartridge seal pressure tested to API 682 (25psi with a maximum pressure drop 2psi over 5mins) to check integrity of sealing components.



9. SEAL DESPATCH

After pressure testing the seal is then given a final clean and then dispatched back to customer with a pressure test certificate.



PRESSURE TEST CERTIFICATE

No. **0001**

Job No:
 Customer Name:
 Customer Order No:
 Unit Tested: Seal ☐ Pump ☐ System ☐ Other ☐
 Description of Unit:
 Size: Drawing No:
 Test Type: Dynamic ☐ Static ☐
 Items Tested:

Test Pressure: Accept Standard:
 Primary Seal: Test Fluid Type:
 Secondary Seal: Temperature:
 Other: Total Duration: minutes
 Pressure Gauge No: Calibration Date:
 General Comments:

DECLARATION:

This unit has been tested to the above conditions, and has passed, as certified by the tester and witness, on behalf of Motion Australia:

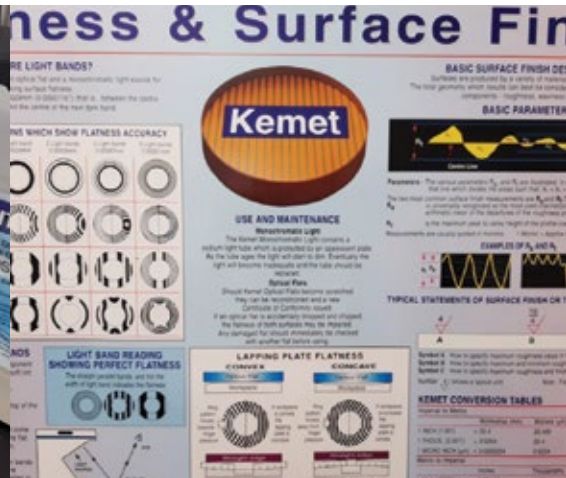
Tester: (name) (signature) Date:

The test was witnessed by: The Customer ☐ Staff ☐

Witness: (name) (signature) Date:



DIAMOND LAPPING COMPOUNDS USED FOR OPTICAL FLAT & MONOCHROMATIC LIGHT



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