



# *Double Suction Pump Repair*



Your local PRO Services® Center offers high quality repair/overhaul capability for your double suction pumps. They're experienced with pumps of all manufacturers including Ahlstrom, Byron Jackson, Goulds, Ingersoll-Dresser and Peerless among a range of others.

Experienced PRO technicians are equipped with the latest technology and training. They provide full factory engineering support for failure analysis, material upgrade and performance enhancements.

PRO Services® Centers provide a thorough inspection and *As Found* Report. A complete workscope for all required repairs with a firm price are included. All critical work such as non-destructive testing, welding and machining can be performed at the facility.

***We welcome your inspection  
of our facility and processes.***

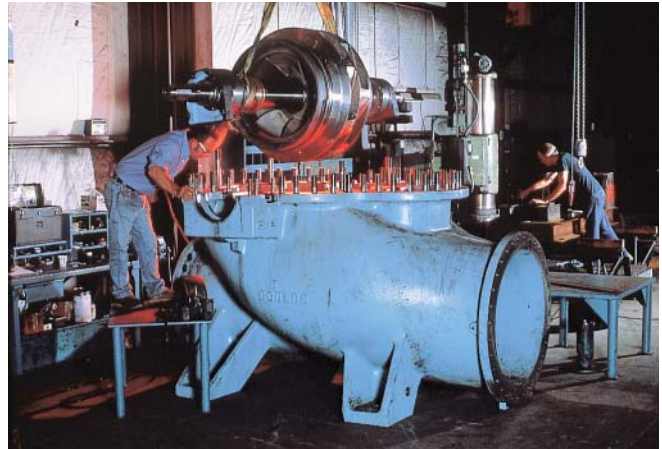


## Typical Double Suction Pump Repair Procedure

1. The pump is completely disassembled and inspected. Particular attention is focused on unusual wear due to:
  - Improper clearances
  - Corrosion/erosion
  - Flow problems
  - Cavitation
  - Contaminants
2. Digital photography can be used to capture specific damage for customer inspection.
3. Component parts are thoroughly cleaned.
4. Precise measurements are taken on all wear components and noted on the inspection form. Non-destructive testing is performed on all parts.
5. Parts are replaced with same or upgraded materials per customer input.
6. Rotating elements are dynamically balanced to our customer's specifications.
7. The pump is carefully reassembled and hydrostatically tested.
8. Complete unit is painted, tagged and prepared for shipment per customer requirements.
9. Documentation is completed for disassembly, parts replacement, modifications, reassembly and compiled in a **REPAIR REPORT**.
10. Complete maintenance records are maintained in our totally integrated **PRO-APP** System for future reference and tracking of Mean Time Between Failure.



**Disassembled pump is inspected for unusual wear.**



**No double suction pump is too big.**

## PRO Advantages

- One (1) year warranty on material and workmanship.
- Full factory engineering support.
- Field service available to assure proper installation and start-up.

- Experience with all manufacturers' equipment provides best available practices and designs in all repairs. We recognize problems and address *root causes* of failure... not just mechanical symptoms.
- Twenty-four hour, seven-days-a-week *emergency service*.



Our rotating equipment experience and expertise allow us to improve equipment efficiency and/or improve MTBF. Some typical double suction pump upgrades include:

- Conversion from packing to mechanical seals.
- Service life of casings can be extended by inserted with stainless steel, line bored and coated with ceramic epoxy.
- Installation of labyrinth seals to prevent lubricant contamination—primary cause of bearing failure.
- Review shaft design and bearing arrangements to assure latest in technology.
- Increase diameter of stainless steel impeller for increased capacity. Low pulse performance for fan pumps can be maintained.
- Modify impeller-to-volute clearances for reduced noise and recirculation cavitation.

**For more information, call your nearest PRO Services® Center, or visit our website at [www.ittproservices.com](http://www.ittproservices.com).**

