

periods of operation casing/impeller is eroded take them for machining match the degree and repair the same. Due to this metal removal front clearance (casing to impeller) is increased which will effect hydraulic performance of pump to avoid this, original clearance is to be maintained which is 0.25 to 0.4 mm which can be easily done by pushing the shaft assembly from back side, if pump is fitted with seal, loosen the seal and take new markings to install seal.

13. DISMANTLING & REPAIR

- When a pump is dismantled for overhauling if necessary, do not hesitate to ask for our Service Engineer's assistance.
- All necessary spare parts should be procured well before hand to minimise downtime.
- When ordering spare parts, it is essential to give an exact description of the part, its part number, the pump model and serial number.

13.1 Dismantling :

- Close the suction and discharge valves.
- Secure the motor against start-up.
- Flush the pump with clear water.
- Remove any instruments and auxiliary pipe work.
- Remove coupling spacer.
- Detach bearing frame foot from base plate.
- Remove casing nuts from studs.
- Withdraw the complete back pull out unit using jack bolts.

Dismantling the shaft sleeve :

- Lock pump shaft and take out the impeller.
- Loosen other part of the shaft seal (gland from the stuffing box cover).
- If mechanical seal is fitted, remove the shaft sleeve together with rotary seal unit, remove the gland plate (Seal cover).

Dismantling of the Pump shaft :

- Remove the shaft sleeve.
- Remove the pump coupling half and coupling key.
- Remove the deflector.
- Remove oil seals.
- Remove the bearing housing bolts.
- Drive out the shaft in direction of the coupling.
- Draw off anti-friction bearings.

13.2 Indication for overhauling :

Check all parts for wear, if necessary, re-machine or replace them.

Shaft :

Mount the shaft on vee blocks and check straightness (Maximum run-out 0.05 mm)

Impeller :

Check impeller for corrosion and erosion damage and machine/replace if necessary.

Shaft Sealing Parts :

Mechanical Seal :

- The faces of the Seal must not show signs of scoring, if necessary, re-lap them. If the faces are badly scoured, replace them.
- Check the shaft sleeve for perfect surface, particularly at the seat of secondary sealing, regrind or replace as necessary.

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