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MAINTENANCE SOLUTIONS

ENSURING RELIABLE, COST EFFECTIVE OPERATION OF YOUR PUMPING SYSTEMS



As designers and manufacturers of robust pumping plant for the water and wastewater industry, Bedford Pumps service department is the ideal choice for all of your service and refurbishment needs.

Our commitment to our product does not end at the point of installation and we offer a complete support service for our products and other pumping plant installations for the life of those products.

SPARES & SERVICE

Bedford Pumps Ltd

Statistics show that over a 25 year cycle the initial capital cost of pumping plant is just 1% of the total cost with energy costs amounting to 75%, and maintenance costs 5%. This is why an effective maintenance and operating programme is essential to ensure the lowest possible whole life costs, extending the life of the plant and minimising breakdown situations and reducing energy costs.

Repair & Service

We have the capability and expertise to repair, re-engineer or upgrade pumps both mechanically and hydraulically, and can verify the performance of such work in our test facility.

- Genuine OEM spare parts
- Service Contracts – standard or tailored contracts
- Routine servicing
- Breakdown servicing
- Emergency response and breakdown contracts
- Extended warranties
- Removal, re-installation & commissioning

Site Surveys

- Pumping station surveys
- Fault finding & analysis
- Energy audits
- Asset upgrade and renewal
- Automation & condition monitoring
- Compliance with current standards

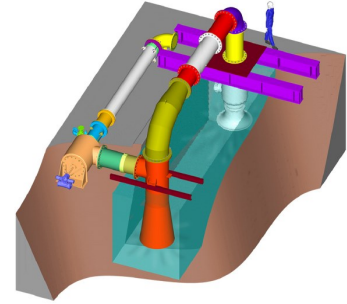


Pump Testing

- In-house pump test bed - full functional and performance testing of all types of pumps up to 3 m³/sec.

Hydraulic Sump Model Testing

- Investigation of specific sump problems
- Reports and recommendations on remedial measures
- Optimise sump and pump operation
- Reduce premature pump failures
- Minimise sump deposition, pump blockages, septicity
- Reduce energy and maintenance costs

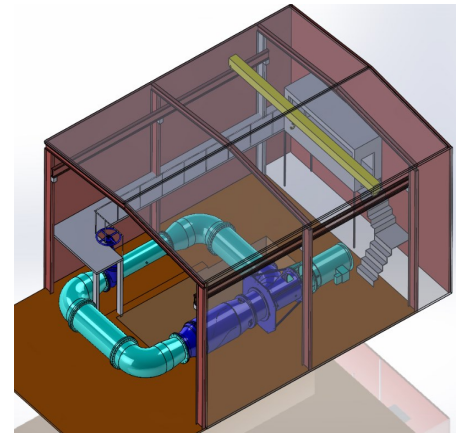


Training

- Site training of operational staff
- Works training
- Product training

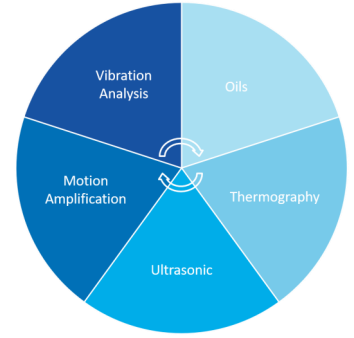
Design & Consultancy

- Production of drawings
- Production and modification of operating and maintenance manuals
- Design modifications
- Feasibility studies



Condition Based Monitoring

Condition Based Monitoring (CBM) opens up a world of possibilities and opportunities for any business to monitor, diagnose and fully understand how an asset is performing in its operational environment, without the need to cease function or production.

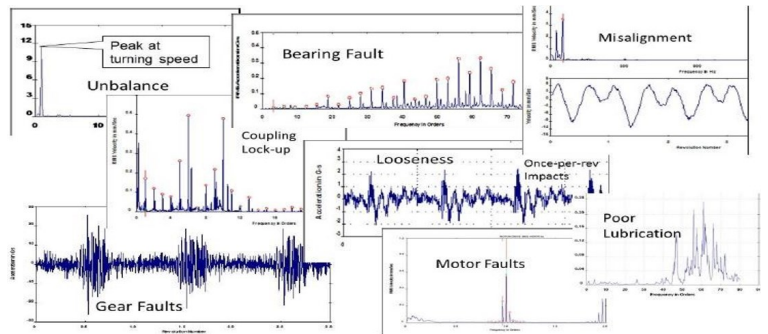


Vibration Analysis

All rotating equipment produces a unique vibration signature that can be analysed for abnormalities. The type of variance detected can signal different problems and pinpoint the likely cause of the fault.

These can include:

- Unbalance
- Looseness
- Resonance
- Pump issues
- Gear faults/wear
- Inadequate lubrication

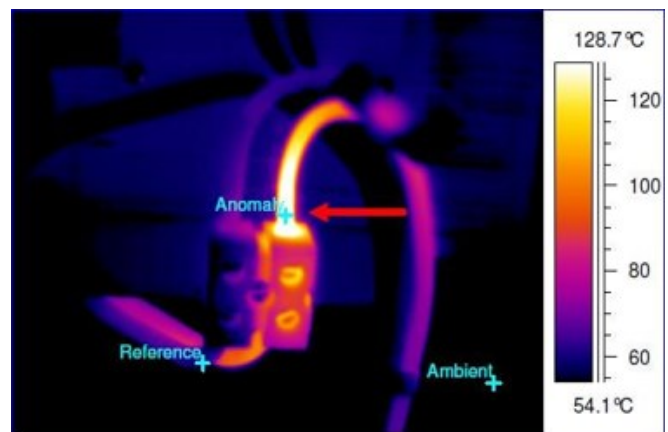


Infrared Thermology

Via our non-intrusive Infrared Thermal Imaging surveys we will provide you with a comprehensive item specific report together with any anomalies detected and recommended corrective actions.

Probable causes can include:

- Bearings
- Overheating
- Steam traps/valves
- Flammable gas leaks
- HV issues
- Wiring faults
- Heat exchanger blockage
- Refractory applications



Motion Amplification

Motion Amplification is a video processing technique that detects minute amounts of machinery movement and then amplifies them to the extent that they become visible to the naked eye.

Benefits of using Motion Amplification:

- Safe
- Fast
- Efficient
- Suitable for a wide variety of applications
- Compliments root-cause analysis
- Provides actionable information
- Reduces downtime

