



VibSolutions
Engineering Consultancy and Training

Unlock your Potential

About Us

VibSolutions is one of the leading companies specialized in presenting services and training in condition monitoring techniques of rotating equipment based on advanced instruments, precision tools, and qualified personnel, offering valuable insights for engineers and companies.

Our Services

SEEK EXCELLENCE

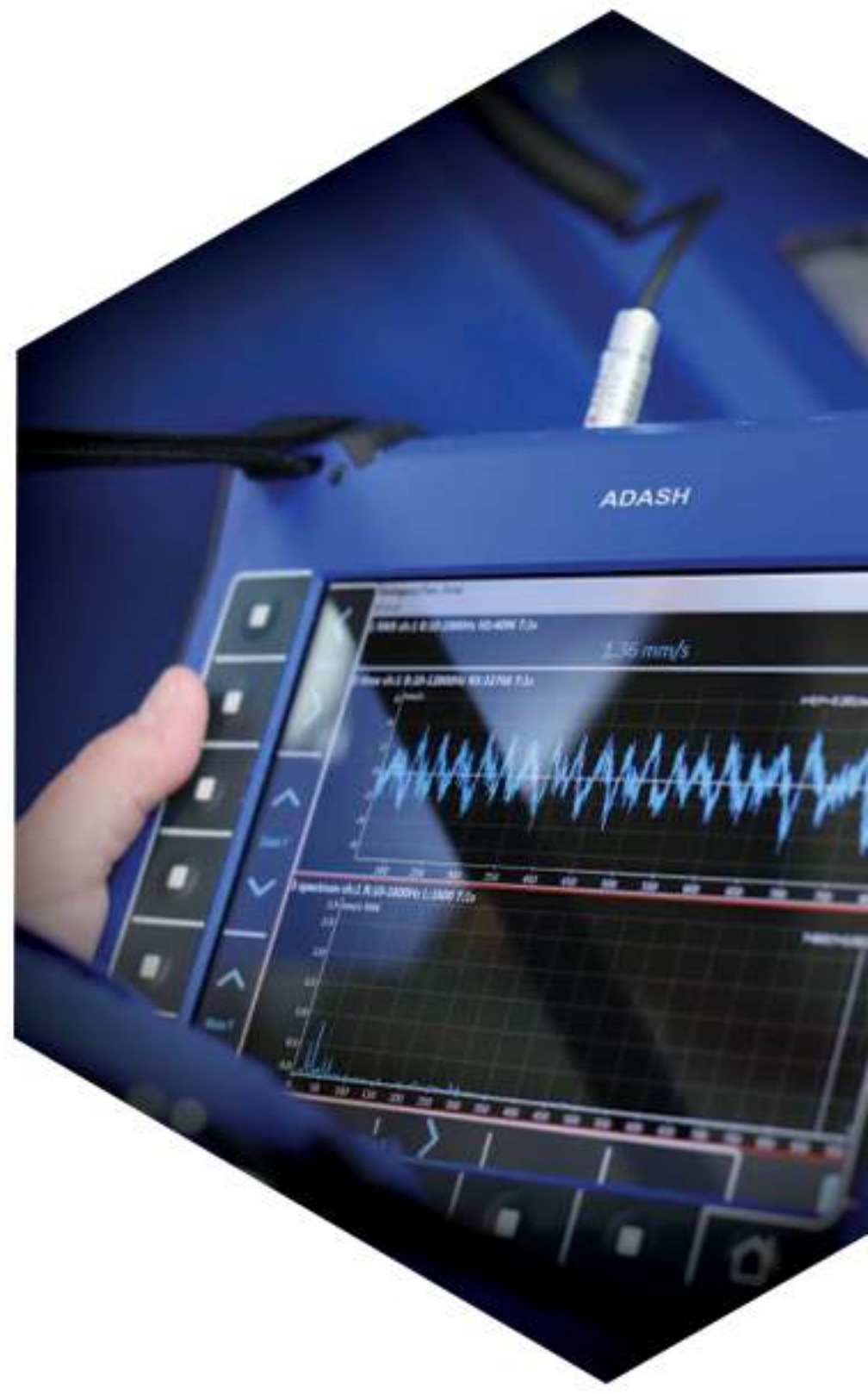
Professional Services

VIBSOLUTIONS PRESENTS CONDITION MONITORING TECHNOLOGIES AND PRECISION CORRECTIVE MAINTENANCE TO SERVE ROTATING EQUIPMENT IN DIFFERENT INDUSTRIES SUCH AS OIL AND GAS, PETROCHEMICAL, CHEMICAL, CEMENT, STEEL, AND ELSE. OUR SERVICES INCLUDE VIBRATION ANALYSIS TESTS, INFRA-RED THERMOGRAPHY TEST, OIL ANALYSIS TESTS, DYNAMIC BALANCING IN SITE, AND LASER SHAFT ALIGNMENT.



Machinery Vibration & Diagnosis

Vibration measurements are used to measure and diagnose machine health as a predictive maintenance technology to detect early faults in rotating equipment. This gives more benefits such as high productivity, high reliability, high safety, low machine down time, low spare parts, and low cost.



Dynamic Balancing in Site

The ultimate goal in any piece of equipment is to have its operating free of any vibration while running smoothly for a long time. It is beneficial to seek to balance the equipment (in site) to the greatest extent possible based on portable balancer instead of using balancing machines which require higher cost and larger breakdown time.



Our Services

Shaft/Pulley Laser Alignment

Incorrectly aligned shafts/Pulley and the consequences of this are behind more than 50% of all malfunctions in rotating machines. This increases unscheduled downtime and therefore production losses. In addition, misaligned shafts increase vibrations and friction, which can increase the energy consumption considerably and cause premature bearing and seal damage. The equipment has to be accurately aligned based on laser device.



Oil Analysis Tests

VibSolutions provides Oil Analysis services to a wide range of applications and industries. Oil analysis may typically apply to low speed machines, critical gearboxes, and hydraulic systems. Oil is routinely analysed and monitored to assess oil chemistry, contamination, and wears in internal machine components.



Our Services

Infrared (IR) Thermo-graph

The process of using a thermal imager to detect radiation (heat) coming from an object, converting it to temperature and displaying an image of the temperature distribution.



Belt Tension Measurements

The customer needed a solution enabling rapid maintenance of pulley/belt component in order to ensure reliable monitoring of belt tension to prevent it breaking and therefore reduce production costs. Highly tensioned belt has a significant effect on bearing life time and highly loosed belt reduces the life time of its life time. Belt tension meter is used to adjust the desired belt tension force for new and in-service belts



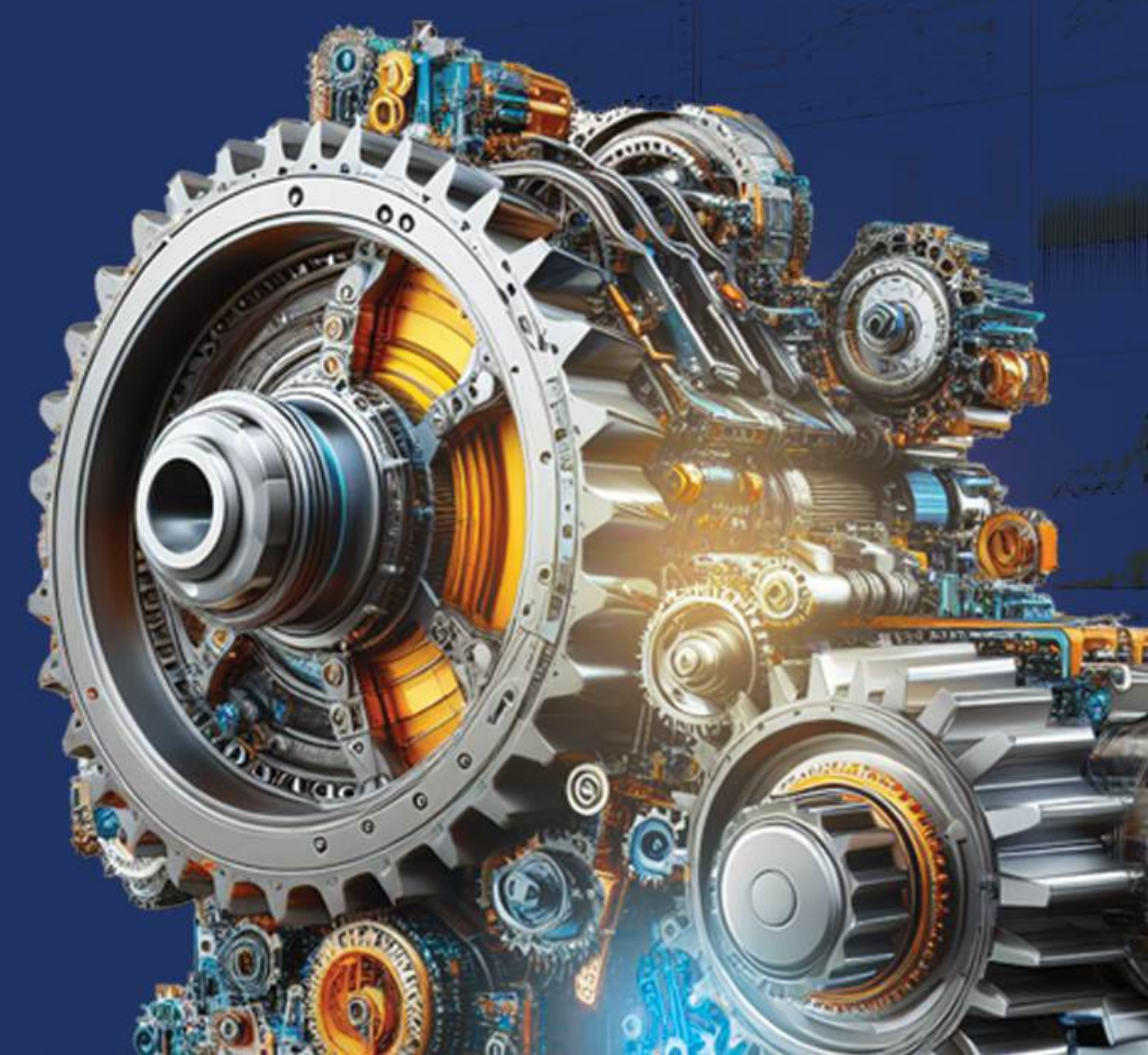
Expert Training

SEEK EXCELLENCE

Expert Training

WE PROVIDE IN-DEPTH KNOWLEDGE THROUGH TRAINING COURSES IN VARIETY OF ENGINEERING DIVISIONS. MECHANICAL, ELECTRICAL, INSTRUMENTS, PROCESS, AND SAFETY COURSES ARE EXAMPLES OF OUR TRAINING SERVICES. EXPERT TRAINERS AND REAL/PRACTICAL CASE STUDIES ARE ADDED TO THE COURSE VALUE TO COMPLETE THE KNOWLEDGE IMAGE.

VS
VibSolutions
Machinery Diagnostics and Solutions





CONDITION BASED MAINTENANCE (CBM) DIVISION



MECHANICAL DIVISION



ELECTRICAL & INSTRUMENT DIVISION



SAFETY DIVISION



PLANNING AND SCHEDULING DIVISION



PRODUCTION AND PROCESS DIVISION



RELIABILITY DIVISION

CONDITION BASED MAINTENANCE (CBM) DIVISION

- MACHINERY VIBRATION ANALYSIS
- MACHINERY LUBRICATION ANALYSIS
- INFRA-RED THERMOGRAPHY
- ULTRASOUND: LEAK DETECTION AND BEARING LUBRICATION STATUS
- BEARING FAILURE ANALYSIS
- PRECISE SHAFT ALIGNMENT
- DYNAMIC BALANCING IN SITE



MECHANICAL DIVISION

- MAINTENANCE PROGRAM STRATEGIES
- CENTRIFUGAL AND POSITIVE DISPLACEMENT PUMPS:
OPERATION, MAINTENANCE AND TROUBLESHOOTING
- GAS COMPRESSORS: OPERATION, MAINTENANCE AND
TROUBLESHOOTING
- GAS TURBINES: OPERATION, MAINTENANCE AND TROUBLESHOOTING
- DIESEL AND GAS ENGINES: OPERATION, MAINTENANCE AND
TROUBLESHOOTING
- GEAR BOX OPERATION, MAINTENANCE AND OVERHAUL
- BEARING FAILURE ANALYSIS
- SHAFT ALIGNMENT



MECHANICAL DIVISION

- MECHANICAL SEALS FOR ROTATING EQUIPMENT
- VALVES: TYPES, OPERATION, MAINTENANCE, AND TROUBLESHOOTING
- HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS "HVAC"
DESIGN
- FIRE FIGHTING SYSTEMS DESIGN IN ADMINISTRATIVE BUILDINGS
- HYDRAULIC SYSTEMS: BASIC, ADVANCED, MAINTENANCE, AND FAULT
ANALYSIS
- ELECTRO HYDRAULIC CONTROL SYSTEMS (ELHS)
- PIPELINES CONSTRUCTION
- NON-DESTRUCTIVE TESTING (NDT) METHODS
- WELDING TECHNOLOGIES

ELECTRICAL & INSTRUMENT DIVISION

- SWITCH GEAR
- TRANSFORMERS
- GENERATORS
- DISTRIBUTIONS
- PLC
- CLASSIC CONTROL
- PROTECTION
- SCADA
- TRANSMITTERS
- INSTRUMENTATION AND CONTROL SYSTEMS
- ELECTRO HYDRAULIC CONTROL SYSTEMS (ELHS)



SAFETY DIVISION

- OSHA
- LIFTING OPERATION
- FIRE FIGHTING
- CHEMICAL HANDLING
- ELECTRICAL SAFETY
- SAFE DRIVING
- RISK ASSESSMENT
- ACCIDENT INVESTIGATION
- HAZOP
- IOSH
- NEBOSH



PLANNING AND SCHEDULING DIVISION

- MAINTENANCE PLANNING & SCHEDULING & WORK CONTROL
- MAINTENANCE MANAGEMENT
- COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM (CMMS)
- SHUTDOWN AND TURNAROUND PLANNING
- DATA ANALYSIS AND VISUALIZATION
- COMMUNICATION AND STAKEHOLDER MANAGEMENT
- SAFETY AND ENVIRONMENTAL REGULATIONS



PRODUCTION AND PROCESS DIVISION

- PROCESS CONTROL AND OPTIMIZATION
- SUPPLY CHAIN MANAGEMENT
- CONTRACTS AND PROCUREMENT
- SAFETY AND ENVIRONMENTAL REGULATIONS
- PROCESS SIMULATION (STEADY STATE - DYNAMIC)



RELIABILITY DIVISION

- ROOT CAUSE ANALYSIS AND ROOT CAUSE FAILURE ANALYSIS(RCA&RCFA)
- RELIABILITY, AVAILABILITY, MAINTAINABILITY AND SAFETY (RAMS)
- RELIABILITY CENTERED MAINTENANCE (RCM)
- ASSET INTEGRITY MANAGEMENT SYSTEM (ISO 55000 WORKSHOP)
- MAINTENANCE MANAGEMENT SYSTEMS

OUR CLIENTS



Machinery Diagnostics and Solutions



+20 102 260 4579



WWW.Vibsolutions.net

www.linkedin.com/company/vibsolutions

www.facebook.com/VS.vibsolutions



Office No. 61 - The Address Mall -
October Gardens - Giza - Egypt

Al-sarraaj main street, Al-sarraaj,
Tripoli, Libya



info@vibsolutions.net

