

# Advanced Motor Management



Improving reliability and energy consumption in motor systems



**A systematic approach delivering tangible savings and improving facility reliability.**  
**Reducing maintenance costs.**

eXpert Motor® offers an holistic life cycle view of reliability and energy consumption in motor systems covering the energy conversion process at every stage (power supply, motor, coupling, gearbox, drive, pump [or driven system], throttle, pipe losses, process control).

For each motor application it calculates and trends real-time motor system efficiency. This will then automatically generate suggestions on improving efficiency and reliability based on system load factors and conditions (run hours, phase imbalance, vibration, motor temperature, number of starts/stops). Corrective actions can be escalated via an Energy Management system such as Strata, designed and developed by Cotopaxi.

#### Key Benefits:

- Up to 60% Energy Reduction
- 30% improvement in motor reliability
- 7% to 5% reduction in downtime
- 30% reduction in motor inventories
- 20% reduction in maintenance costs
- Increases asset utilization
- Extend motor system capacity

#### Our Approach:

- Complete initial review
- Compile database
- Criticality analysis/ranking of motors
- Launch eXpert motor(www)
- Implement 'base' cover from day 1
- Compile sensitivity reports
- Upgrade selective motor systems
- Install telemetry
- Implement extended services



**'Base' Service**

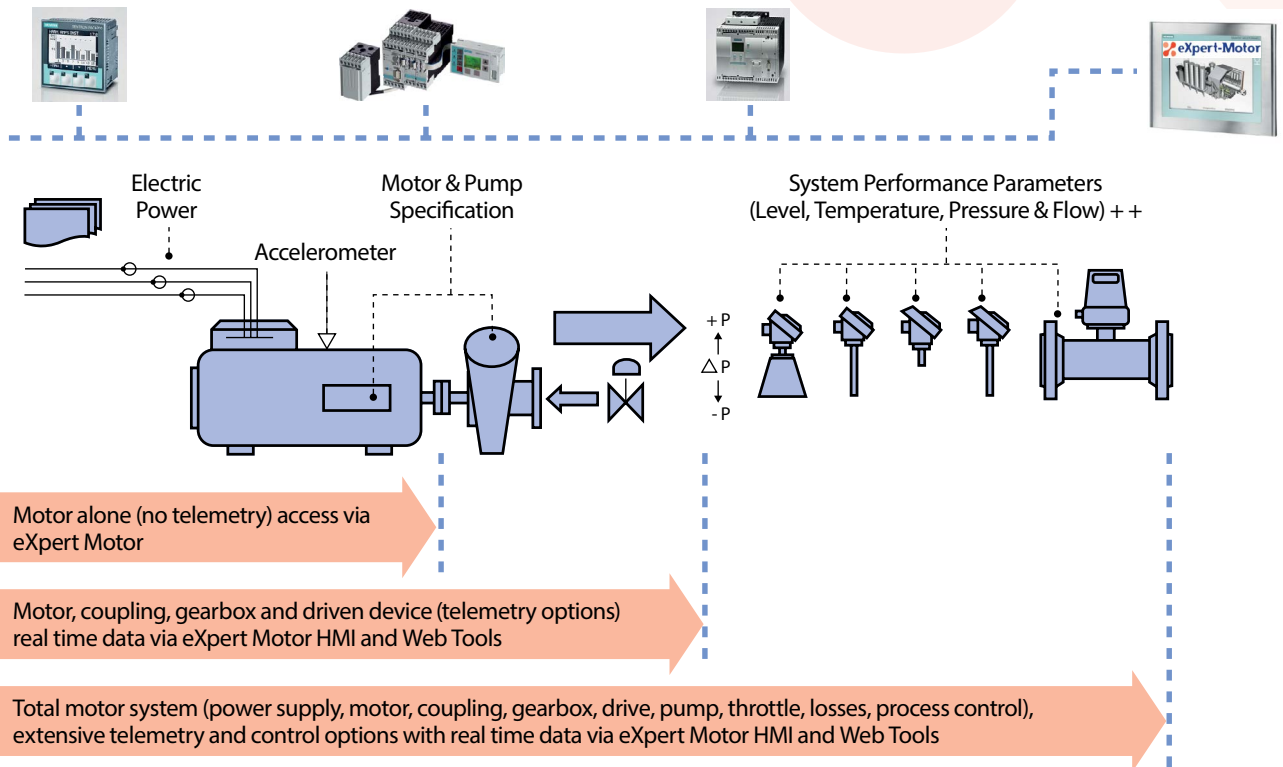
- Annual site review
- Data Collection
- GAP Analysis
- Reliability & Upgrade Strategy
- Improvement Report

**'Advanced' Service**

- 'Base' Services +
- A Biannual Review
- Auto Data Telemetry
- Basic Condition Monitoring
- Motor System Efficiency
- Advanced Diagnostics

**'Premium' Service**

- Advanced' Services +
- Quarterly Review
- Extended Telemetry
- Advanced Condition Monitoring
- Plant & Facility Optimisation
- Application Engineering



**Applications**

- Pumps
- Fans
- Compressors
- Conveyors
- Blowers
- Hydraulics
- Process Plant
- Refrigeration
- Compressed Air
- HVAC
- Water Treatment

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