



Industrie Service

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Pumping Systems – Improving Cost and Energy Efficiency, Availability and Safety

A Product Information Sheet by the Energy and Technology Business Area

Optimising pumping-system performance offers considerable potential for savings by improving efficiency and availability. With years of experience in this field, TÜV SÜD acts as your expert and impartial partner, ensuring that your company makes full use of this potential while taking the economic situation and the legal framework conditions into account.

Unfortunately, many industrial pumps do not operate at BEP (best efficiency point). These pumps are real energy guzzlers – their pump operation is inefficient and their pump components are exposed to unnecessary mechanical and hydraulic loads. Even fine-tuning the pumping and piping systems while taking aspects including head, flow and drive power into consideration already offers considerable potential for saving. We support you in optimising your operational processes in compliance with the legal regulations.

Our services

- Improving the cost and energy efficiency of pump systems
- Quality testing and assurance during manufacturing
- Third party inspection at the pump manufacturer e.g. as per ISO 9906
- Monitoring of installation and assembly
- Assessment of compliance with international regulations (e.g. Machinery Directive 2006/42/EC)

- Assessment of the safety integrity level (IEC 61508 / "SIL")
- Vibration and performance measurement
- Selection of monitoring systems for early failure detection/machine diagnosis
- Impartial damage inspection
- Strength and structural analyses, e.g. for earthquake resistance
- Assistance during commissioning
- Obtaining official approvals

Your benefits

- ▶ Manufacturer-independent consultancy
- ▶ Selection of pumps ideally suited for your application
- ▶ Ensuring the required manufacturing quality and functioning
- ▶ Improved operational safety, availability and efficiency
- ▶ Identification of potential for savings
- ▶ Reduced life-cycle costs
- ▶ Short approval times

Reduce energy costs and downtime systematically – our experts have long-standing experience in this field. As your independent partner, we develop plans customised to your needs and thus improve the cost-effectiveness of your company.

Choose a partner offering impartiality and technical expertise from a single source: TÜV SÜD. We will be happy to advise you in more detail. Call us!

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