

SubPUMP®

Electric submersible pump
design and analysis



The Source

for Critical Information and Insight™

Access multi-vendor ESP equipment data from the industry's only independent source

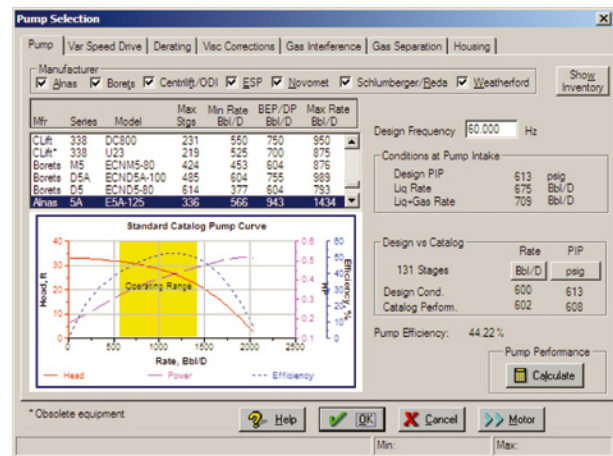
When designing a new electric submersible pump (ESP) installation or evaluating an existing one, your goal is the same; to improve production and reduce costs.

SubPUMP from IHS helps you achieve both. The software was originally developed with the help of Shell and Arco. Today, it is the most popular, unbiased, comprehensive and user-friendly program available for ESP design and analysis, with users in more than 45 countries.

ESP equipment in a well can often cost more than \$150,000. Also, wells with ESPs typically produce large volumes, meaning that a significant amount of revenue is impacted. By using SubPUMP, you can optimize these important assets.

The only independent ESP program

- SubPUMP is the only comprehensive ESP program from an independent source. With no vested interest in equipment sales, IHS incorporates ESP equipment data from every leading manufacturer. As a result, you get **unbiased designs** truly customized to your specific needs. SubPUMP is also widely used by most ESP pump/motor manufacturers.



Multi-vendor pump selection.

Flexibility with three design modes

- Designs for new well installations can be done in "Rigorous" or "Quick Design" modes, depending on the amount of data available. In addition, existing systems can be analyzed.

Other unique features

- **Simple data input** — SubPUMP makes data entry smooth and simple with an intuitive interface and step-by-step input dialogues.
- **“True-to-life” design with top manufacturers’ parts**— SubPUMP includes ESP pumps, motors and cables from the industry’s leading manufacturers, enabling you to design true-to-life wells. IHS frequently updates the softwares’ equipment database, so you always have the latest equipment data to support realistic designs. More accurate designs up front reduce costly in-the-field errors.
- **Analysis with viscous fluids and emulsions** — SubPUMP enables ESP design with calibration of viscous fluids and emulsions, so often found in ESP wells. More accurate PVT and viscosity calculations lead to better designs and more productive wells.
- **Design and analysis of existing installations** — SubPUMP remains unique in its ability to handle existing ESP installations. Plus, by taking the whole well system into consideration and crosschecking with ESP vendor design, you achieve the most effective design possible.
- **Flexibility in calculations** — Solve for either intake pressure, flow rate or pump depth. You can also evaluate other important operating parameters such as variable frequency, volume of free gas in pump, fluid column, and more.
- **Other powerful features** — SubPUMP also includes a correlation for gas separation efficiency, Podio correction for gassy wells, ability to model impact of gas interference on pump performance, case studies, dynamic units change, and the ability to add or modify pumps and motors and gas injection for design of dual ESPGaslift installations.
- **Time-tested, cost-effective solution** — SubPUMP has been field-tested and used in over 45 countries for more than a decade.

Links

- Allows import of data from IHS PERFORM™ (Nodal analysis) and PVTLIB™ Software.
- Allows export of pump performance data to IHS Pipesoft-2™ for analyzing the effect on the well/flowline/facility network.

Training and support

Free world-class support for the first year included. Continuing support upon contract terms. Training available. Option of hardware or software security.

For more information

Free demo CD and trial available. For more information on SubPUMP and the Producing Systems Group, visit ihs.com/energy/psg, contact sales.psg@ihs.com or call **1.972.705.0402** (voice) or **1.972.783.0058** (fax).



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