

Blackmer®

Expert
Solutions
for Upstream
Oil & Gas
Applications

OIL & GAS
Product Brochure



Where Innovation Flows

SLIDING VANE PUMPS
RECIPROCATING GAS COMPRESSORS
SCREW PUMPS


PSG
a **DOVER** company

blackmer.com

Oil & Natural Gas Continue to Fuel the World

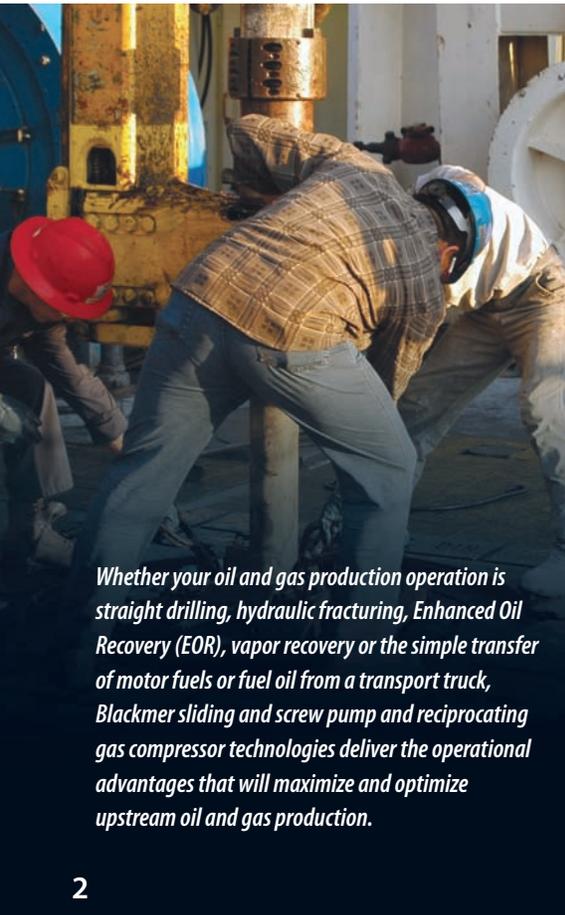
Operators within the oil & gas industry, from the drilling site all the way through to the tank battery at a bulk plant, have some pretty simple requirements for their pumps:

- Maintain consistent flow rates
- Handle liquids of varying viscosities
- Product containment with no leakage
- Minimal maintenance

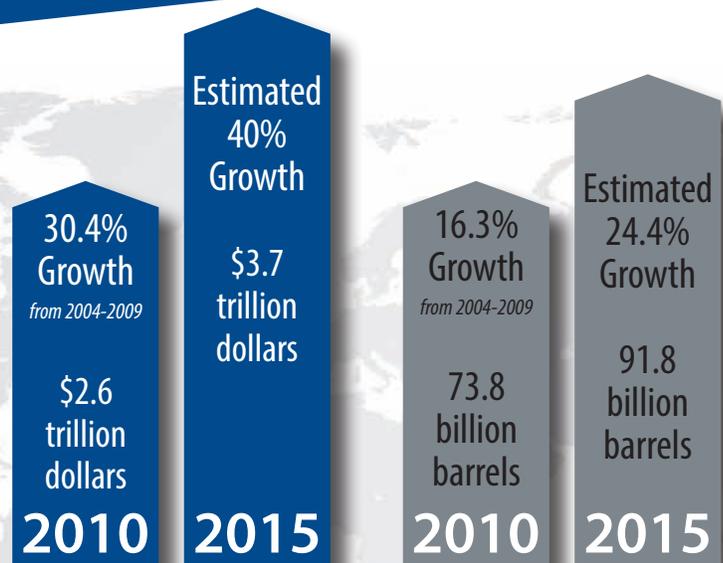
Ultimately, it's about uptime, meaning that the equipment must be rugged enough to perform under extremely adverse conditions 24/7/365.

Consistent Performance is Key

Finding the pump or compressor that can meet those requirements is oftentimes easier said than done. Volumetric consistency is paramount for the operator because the pumps frequently run continuously, so a consistent, reliable flow rate is necessary to ensure that production rates and quotas are met.



Whether your oil and gas production operation is straight drilling, hydraulic fracturing, Enhanced Oil Recovery (EOR), vapor recovery or the simple transfer of motor fuels or fuel oil from a transport truck, Blackmer sliding and screw pump and reciprocating gas compressor technologies deliver the operational advantages that will maximize and optimize upstream oil and gas production.



Source: Oil & Gas: Global Industry Almanac, Marketline International, 2011

The United States is projected to overtake Saudi Arabia in Oil & Gas production by 2020.

Source: "IEA Pegs U.S. As Top Oil Producer by 2020," Wall Street Journal, November 2012

Why Blackmer® Reciprocating Gas Compressors?

FEATURES & BENEFITS

High-efficiency PEEK valves

Improved seating to increase gas volume

Ductile-iron construction

Greater resistance to thermal and mechanical shock

Single- or double-distance piece

Prevents condensate from contaminating crankcase oil

Pressure-lubricated crankcase

Ensures positive oil distribution for long life and minimal wear

Self-lubricating piston rings

PTFE rings provide more wear surface for maximum sealing and extended life

Why Blackmer® Sliding Vane Pumps?

FEATURES & BENEFITS

Superior mechanical performance

Reduced maintenance, improved uptime

Energy-efficient design

Lower operational costs

Superior suction and pressure capabilities

Excellent fluid lift and line stripping

Sliding vane design

Eliminates slippage for consistent volumetric performance. Excellent with viscous liquids at slow speeds.

Why Blackmer® Screw Pumps?

FEATURES & BENEFITS

Fluid-transfer versatility

Can handle varying flows, pressures, liquid types and viscosities

High volumetric consistency

Improves operational efficiencies and reduces costs

Constant flow rates

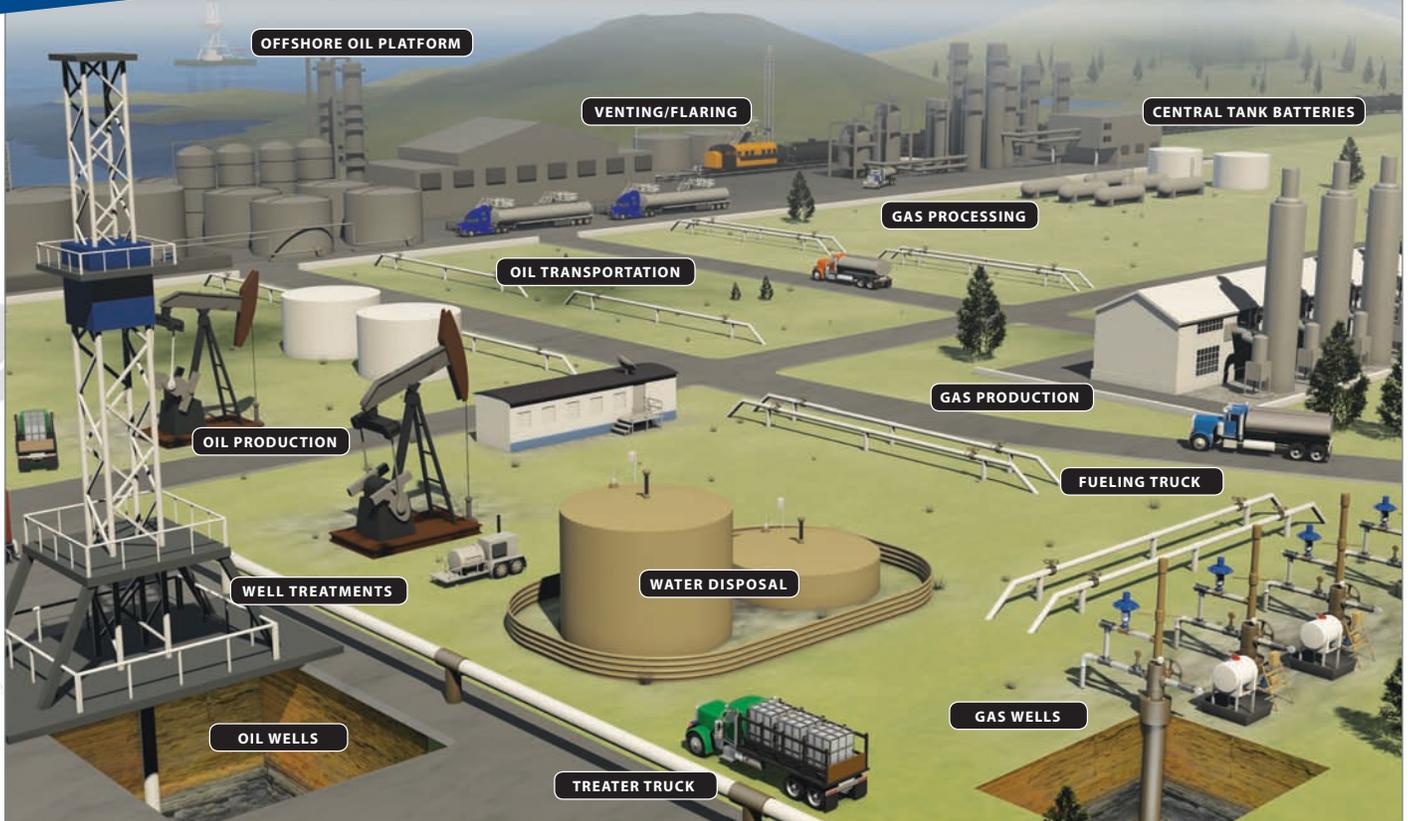
Even with backpressure variances caused by viscosity changes

Low mechanical vibration

Lengthens service life and operational reliability

Extremely low pulsation

Reduces stress and prolongs life of associated pumping-system components



UPSTREAM By nature, oil and gas production is a complicated process with a number of entry points, most of which can make use of Blackmer pump and compressor technology. The illustration above shows typical applications within the upstream oil and gas production process.

The oilfield is an area that is ripe for equipment improvements and optimization due to the quickly growing and changing nature of production and recovery technologies, which have combined to revive and enhance domestic and global oil and natural gas production.

Within the Upstream sector, there exist multiple entry points that require high-quality pump and compressor equipment and systems in order to maximize uptime performance, efficiency and product recovery. PSG® pump and compressor technologies fill this need.

SLIDING VANE PUMPS



NP/SNP Designed for clean, non-corrosive liquids at varying temperatures, pressures and viscosities. Offers maximum versatility for a range of applications from offshore platforms to Central Tank Batteries and Well Treatments.



XL/XLW Used in many processing, filling and transfer applications. Features replaceable casing liners and end discs for easy maintenance. Used throughout the upstream process from Oil and Gas Wells to Tank Batteries and Gathering Systems.



HXL For high-capacity top or bottom loading, unloading or blending. Ideally suited for barge, ship and terminal transfers where high-suction capabilities enable them to strip tanks and lines. Also used in Gathering System pipelines to and from field terminals.



GX/X For use in transfer/loading/unloading of feedstocks and end products in all types of terminal applications. Its high suction capabilities make this pump well-suited for Pipelines, Field Terminals, Oil Transport and other transfer points in the Gathering System.



MLX Ideal for non-lubricating solvents to highly viscous liquids or abrasive slurries. Modular bearing hub assemblies allow easy reconfiguration in the field. Can be used at the well, or for transfer throughout the Gathering System and field terminals.



XLWHP3 Specially designed for high-pressure, abrasive liquid applications such as Chemical Treater Trucks. Constructed of hardened and replaceable wear surfaces (liners and end discs)

RECIPROCATING GAS COMPRESSORS



HD/HDS Provides efficient and quiet delivery of oil-free gas or air. Single and two-stage compressors combine advanced design technology and state-of-the-art materials to deliver maximum performance with minimum maintenance.

SCREW PUMPS



S SERIES TWIN SCREW WTG Pumps "with timing gear" (WTG) transmission creates the highest flow rates of any rotary PD pump. Ideal for applications such as field gathering, Free Water Knockout (FWKO), pipeline start-up and re-injection, and general crude transfer.



S SERIES TRIPLE SCREW Encased male and female drive spindles allow fluids to move smoothly and continuously from suction to discharge, a design that is ideal for boosting pressure in pipeline laterals and special transfer applications for clean, pipeline grade crude.



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