

Experts in
**MISSION
CRITICAL**
Transfer Flow
Solutions For



Liquid Terminals

- Transfer
- Blending/
Mixing
- Transportation

Blackmer Pumps Used in Liquid Terminal Operations

Blackmer is the global leader in transfer, transloading and blending solutions for petroleum and chemical liquid-storage terminals. Blackmer Pumps have earned this distinction because of their ready compatibility with petroleum products from fuels to asphalt, chemicals, caustics, sulfates and acids, and all types of vegetable and animal oils or fats. Blackmer pumps are designed to run dry for short periods, and perform self-priming and line-stripping duties. Their design also makes them highly energy-efficient and eliminates many of the maintenance concerns inherent in other pump styles.

In short, for liquid-storage terminal applications, nothing beats a Blackmer for reliability, volumetric consistency, efficiency and energy savings in moving liquids into and out of storage facilities, be the mode of transportation tanker ship, barge, pipeline, railcar or transport truck.

Liquids handled include:

- Crude Oil
- Refined Fuels
 - Gasoline
 - Fuel Oils
 - Lube Oils
- Processed Chemicals
- Sodium Hydroxide (NaOH)
- Potassium Hydroxide (KOH)
- Anti-Gel Agents
- Soy, palm and other virgin vegetable oils
- Animal fats
- Lube Oils
- Recycled cooking oils
- Ethanol
- Biodiesel

When it comes to optimizing flow performance, reducing costs and increasing profitability, the world's most productive operations share a common demand – **Better Get Blackmer.**



ISO 9001 Certified

Blackmer Pumps are Designed to Help in Liquid Terminal Operations:

- Improve operational efficiencies on thin and viscous liquid transfer
- Significantly reduce maintenance costs by providing highly reliable, easy-to-maintain pumps
- Save energy through power-efficient pump designs
- Improve uptime performance – pumps are engineered to address the most problematic areas: seals and bearings
- Control quality by ensuring volumetric output consistency to meet blending specifications



ProVane® Motor Speed Vane Pumps



Designed for production, process and blending applications, ProVane® Motor Speed Vane Pumps deliver volumetric output consistency to ensure batch quality compliance. This pump provides continuous-duty operation with no preventative maintenance required. Motor speed design results in energy savings while you're making fuel or chemicals.



GX/X Series Sliding Vane Pumps



Designed for transfer and loading/unloading of feedstocks and end products in all types of terminal applications. Offering high-suction capabilities, this pump is especially suited for pumping from bulk plants, stripping lines and completely removing the heel from rail and transport tankers.



TX(S)D Series Sliding Vane Pumps



Fast, quiet and highly reliable, the TX(S)D Series is a truck-mounted transfer pump specifically designed for use on tank trucks and transports for the transfer of petroleum products and chemicals.



System One® LD17 Centrifugal Pumps



Designed for high-volume, severe-duty applications such as unloading barges, ships, railcars and tank trucks, and transferring liquids from terminal tanks to loading platforms.



ML/HXL Series Sliding Vane Pumps



Designed for high-capacity transfer, top or bottom loading/unloading and blending at the rack. ML and HXL pumps are ideally suited for barge, ship and terminal transfers where their self-priming and high-suction capabilities enable them to strip tanks, barges and railcars clean.



NP/SNP Sliding Vane Pumps



Designed for the handling of clean, non-corrosive liquids at varying temperatures, pressures and viscosities, NP pumps offer maximum versatility in loading/unloading and transfer applications. The stainless-steel construction of the SNP line makes it ideal for handling a variety of corrosive or caustic fluids, which is a crucial consideration in the chemical industry.



Pump Type	Bulk Transfer	In-Plant			Transportation	
	Loading/ Unloading	In-Line Blending	Blending/ Mixing	Packaging	Loading/ Unloading	Transport & Tank Truck
ProVane®		■	■	■		
System One®	■		■		■	
ML/HXL Series	■		■		■	
GX/X Series	■	■	■	■	■	
NP/SNP Series	■			■	■	
TX(S)D Series						■

Blackmer positive displacement sliding vane pumps:

- Are designed specifically for reliable continuous duty operation
- Set the industry standard for low and medium viscosity process and transfer applications
- Improve production yields – self-priming, high suction pumps strip lines of residual product

Blackmer centrifugal pumps:

- Are built specifically for the toughest, hard-to-seal applications
- Set the industry standard for seal integrity and extended bearing life

High Volumetric Efficiency & Consistency, Energy Savings and Reliability by Design

Blackmer Positive Displacement Sliding Vane Pumps

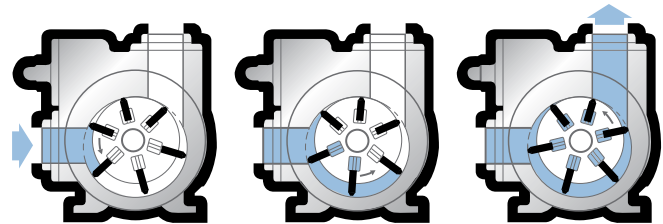


All Blackmer vane pumps begin with seal and bearing life as the primary design criteria to ensure elimination of the most problematic challenges of light liquid transfer. Other vane pump advantages include:

- **Volumetric Output Consistency** – self-adjusting vanes eliminate efficiency robbing “slip” to maintain near original volumetric output capacity and consistency even after significant wear; ideal for blending processes – something you can’t achieve with gear pumps
- **Seal and Bearing Integrity** – designed for maximum seal and bearing life
- **Flow Capacity Flexibility** – ranges from 1 gpm to 2,300 gpm
- **Superior priming and suction capabilities** – exceptional for line stripping, complete evacuation of heels and superior lift from USTs
- **Easy Maintenance** – pump can be completely rebuilt with piping attached



How Blackmer's Sliding Vane Pumps Work



High Volume, Severe-Duty, Reliable, Leak-Free Flow by Design

Blackmer System One® Centrifugal Pumps



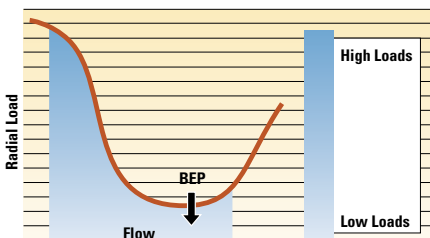
Designed around the seal where 90% of pump failures occur, to move hard-to-seal thin liquids, as well as slurries and abrasives that typically plague other centrifugal pumps. Other System One® advantages include:

- **Heavy-Duty Shaft** – eliminates vibration for a larger operational window off the BEP (Best Efficiency Point) for greater reliability
- **Shorter Shaft Overhang** – reduces bearing load to extend bearing life

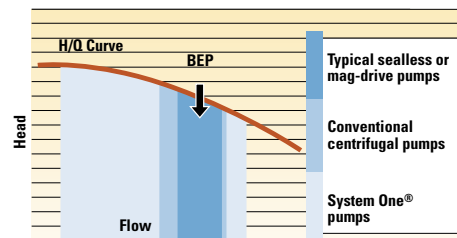
- **Seal Integrity** – low deflection shaft provides greater stability at seal area to improve seal life
- **Best Guarantee in the Industry** – 5-Year Power End Performance Assurance and One Year Mechanical Seal Performance Assurance



Wider Window of Operation Off the BEP (Best Efficiency Point)



Many processes demand operation off the BEP where higher loads can create damaging vibration.



System One® pumps resist vibration for a larger operational window off the BEP and greater reliability.



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