



Twin Screw Pump S E R I E S

A Safer, Greener, More Cost-Effective Pumping Solution

Blackmer, part of PSG®, a Dover company, is a global provider of innovative, high-quality industrial twin-screw and multi-phase pumps for the safe and efficient transfer of liquids. Blackmer is proud to offer the S Series. This durable screw pump line is perfectly suited to applications with the Process, Energy, Transport and Marine markets. Blackmer S Series pumps offer a wide range of highly customizable pumps and systems for the world's most demanding applications.

Our world-class distributor network ensures that you will have access to the pump you need when you need it. We are devoted to your business's success servicing your needs with world-class products, delivery and best of class expertise. Put us to the test today and contact your local distributor at blackmer.com

S Series Pumps are Ideally Suited For...

- Chemicals
- Caustics
- Adhesives
- Food and beverage
- Soap
- Petrochemicals
- Acids
- Polymers
- Crude oil
- Asphalt
- Diesel
- Seawater
- Lube oil
- Kerosene
- Oilfields
- Residuals
- Bulk transfer
- Loading/unloading
- Terminals
- Shipping
- Bilge and ballast
- Fire-suppression



How it Works

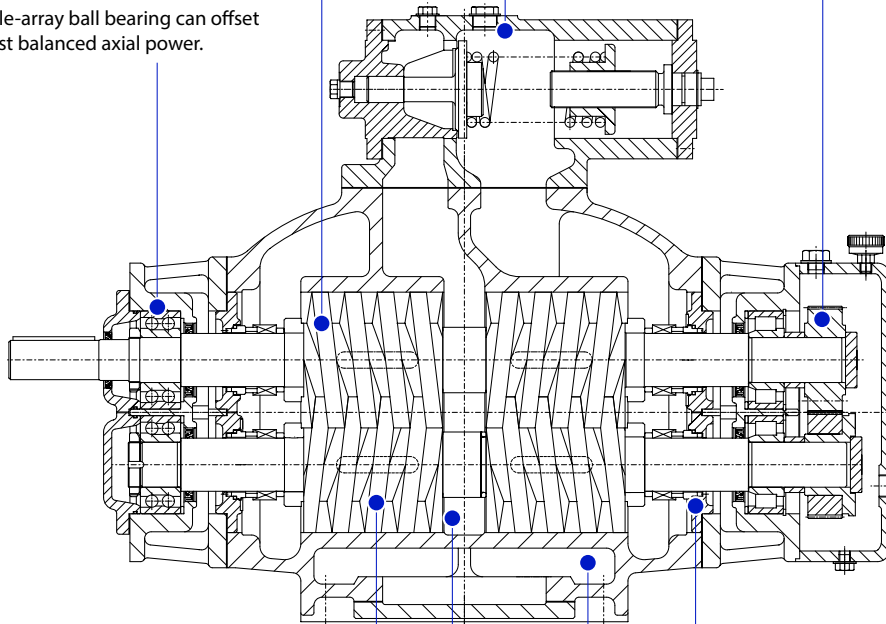
Blackmer Twin Screw Pumps are rotary, positive displacement pumps capable of handling various clean liquids that contain no solids. The pump is composed of two sets of opposed screws. During pump operation, the screws on the two shafts are engaged and form a sealed cavity with the surrounding pump casing. The pumped liquid is shifted axially as the screw shafts turn and steadily and constantly convey the liquid to the center of the pump where the discharge port is located. Since hydraulic forces on two screws are opposite and equal, the hydraulic axial stress on shafts is automatically balanced.

The special profile of the screw flanks with patented technology can ensure fluids pushed with high efficiency, nearly pulsation-free, continuation and good NPSH-values.

Double-array ball bearing can offset against balanced axial power.

Relief valve installation can realize overload protection.

With WTG pumps, the timing gear is adopted to transfer the torque from power screw to idler screw, ensuring no metallic contact and dynamic transfer between the screws, reliable rotation and no danger to the pump even when dry-running for a short time.



Separate construction between shaft and screw allows for a choice of materials for each.

The single mechanical seal is lubricated by pumped medium.

Axial forces are balanced through double-entry screws.

Heating of the pump foot is by means of vapor or transfer-heat oil.