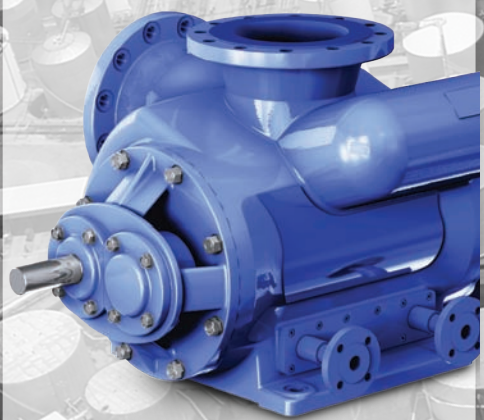


Blackmer[®]

Expert
Solutions
for Maritime
Logistics

2HC SERIES
S Series Twin Screw Pumps



Where Innovation Flows

TWIN SCREW PUMPS



blackmer.com



HC Series Twin Screw Pumps

Delivering the Operational Capabilities demanded by Maritime Logistics Networks



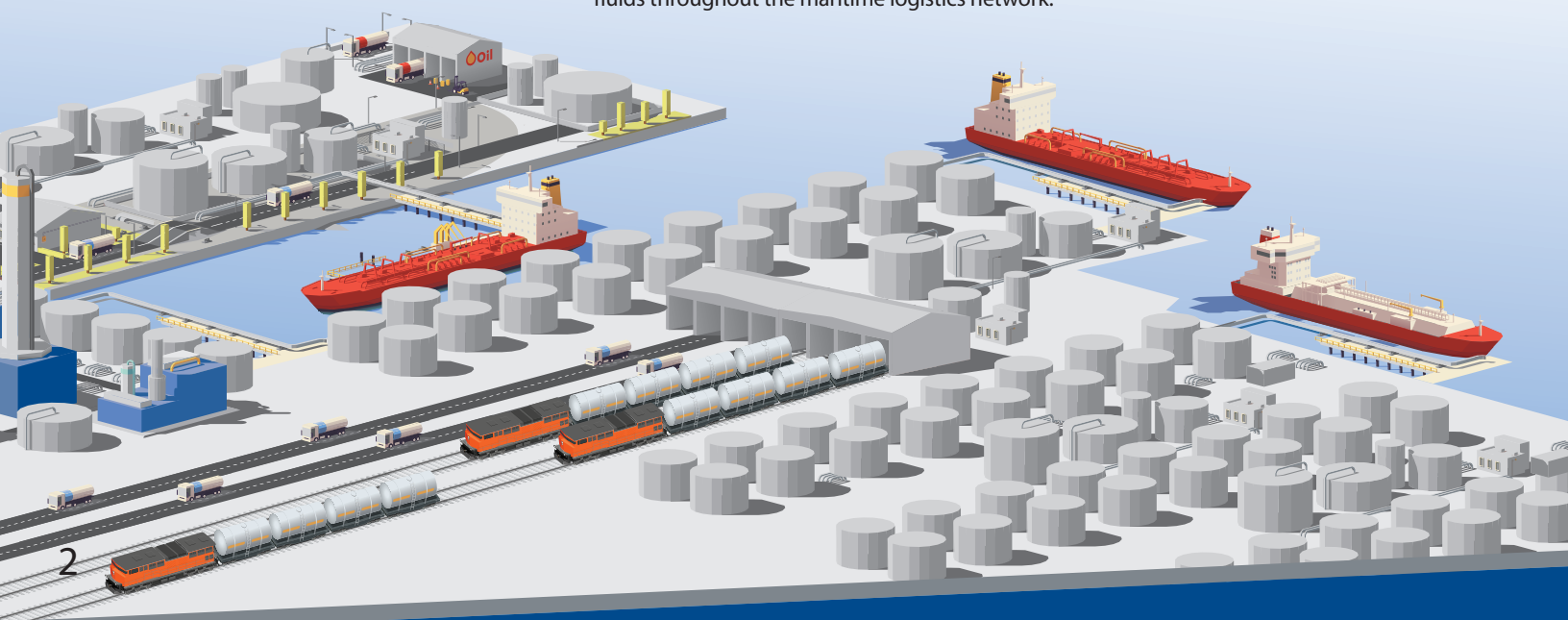
2HC Twin Screw Pump, WTG

The movement of fluids through the maritime-logistics space are complex, varying from day-to-day as fluid supplies, market pricing, and customer demands change. Essential commodities like crude oil, fuel oil, marine gas oil, gasoline, and chemicals need to be reliably transported and handled to ensure that demanding delivery schedules are met without costly delays, while at the same time ensuring that the environmental sensitivity of seas and inland waterways are protected.

Choosing the Right Pump is Critical

Vessels and facilities that service, or are located at, maritime-logistics facilities are only able to perform their required duties if they are outfitted with the best equipment. Key components to performing these duties are the pumps used to load and unload large sea-going vessels, inland waterway tankers, tanker rail lines or to bunker fuel oil to larger vessels that can not access berth space. Oftentimes this involves the conveyance of varying fluid types, fluid viscosities, and flow rates depending on the downstream process requirements.

The Blackmer® 2HC Series pumps, part of the S Series line of twin screw pumps, are capable of servicing these challenging applications. These ATEX-certified pumps are specially designed with compact pumping technology that delivers the reliability, flexibility, economy, performance, and proven value to optimize the transfer of critical fluids throughout the maritime logistics network.



Small Footprint With High Power-Density Ratio

Reduced weight with high flow throughput capability for space limited applications with minimal foundation requirements.

High-Volumetric Efficiency Screw Profile

Specialized geometry to improve performance on low viscosity mediums with superior line and tank stripping capabilities.

Compact, AGMA 11 Single Helical Timing Gear Design

Mechanically efficient with quick-adjustment feature to facilitate routine servicing of pump in field.

Contact-Free Rotating Assembly

Timed twin shaft design rigidly supported between independently lubricated bearings to ensure no internal metal-to-metal contact. Able to handle fluids with poor to no lubricity as well as entrained gas without vapor locking.

Integral, Pressure-Limiting Valve

Simple over-pressurization protection of pump without need for external piping.

Self-Priming Capability

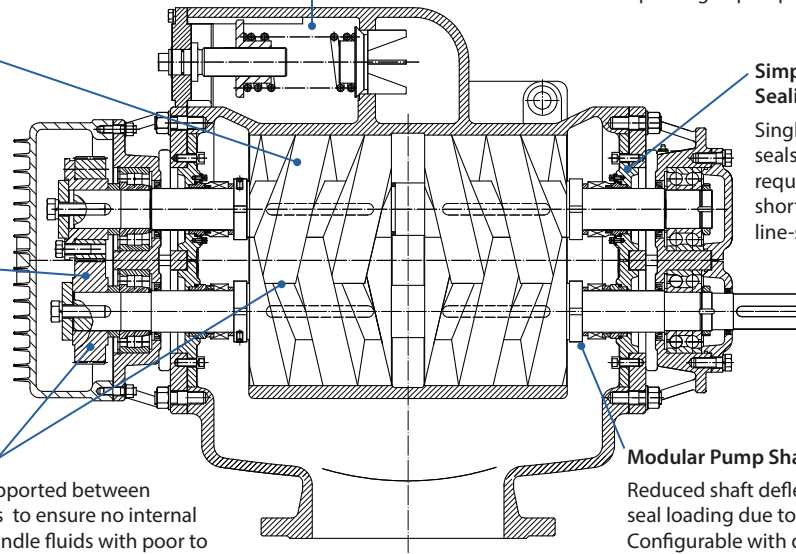
Pumping screws are positioned below the suction centerline to ensure wet priming of pump when restarting.

Simple and Economical Shaft Sealing Solutions

Single unbalanced mechanical seals with no external flush plan required, in most cases, and short, dry run provision when line-stripping.

Modular Pump Shaft Design

Reduced shaft deflection and mechanical seal loading due to minimized bearing span. Configurable with different shaft and pumping screw materials as well as screw pitches.



TECHNICAL DATA

- **Pump Casing:** Cast iron/ductile iron/cast steel/cast stainless steel
- **Shaft:** Alloy steel/stainless steel
- **Screws:** Ductile iron/alloy steel/stainless steel
- **Bearing Housing:** Grey cast iron
- **Pump Nozzle Flange:** GB/DIN/ANSI
- **Flange:** DN125-DN500

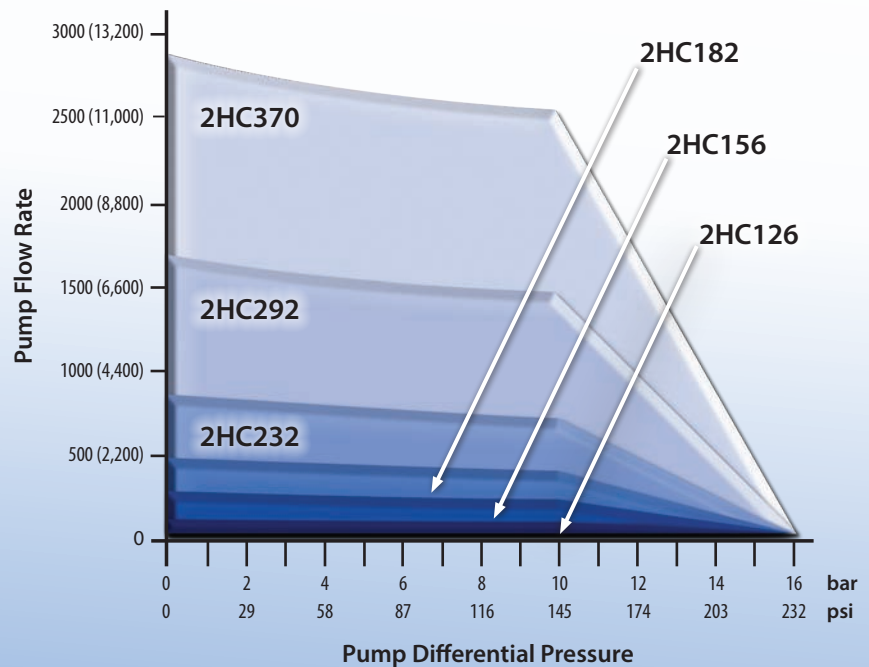
OPTIONAL FEATURES:

- ANSI or DIN flange drilling
- Side or top discharge
- Casing foot heating
- Casing insulation
- Full oil lubrication
- Bearing housing cooling fins and/or coils
- Internal wear resistant surface hardening
- Special paint
- Condition monitoring instrumentation
- Certified factory testing
- API 676 with exceptions

CERTIFICATIONS & ASSOCIATIONS



m³/h (US gpm)





PSG Grand Rapids
1809 Century Avenue SW
Grand Rapids, MI 49503-1530 USA
T: +1 (616) 241-1611 • F: +1 (616) 241-3752
blackmer.com

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