Bringing it all together

Imo® Pump

IMO AB, a Colfax Business Unit, is the leading manufacturer of rotary positive displacement three-screw pumps. Headquartered in Stockholm, and with locations worldwide, IMO serves critical applications for oil transfer, navy, commercial marine, power generation as well as general industry.

The main attraction

With over 75 years in operation and more than one million pumps delivered, IMO is an established and trusted name that represents the highest quality, reliability and service levels in the pump industry.

Tradition of innovation

In the 1920s, on what he later described as a "boring evening at home," Carl Montelius sketched the idea for a pump with three intermeshing screws rotating in a manner that would make them mutually sealing.

From there, Montelius went on to perfect the mathematical algorithms of the threads which would lay the groundwork for the world's first multiple screw pump. The precisely calculated profile of the rotor threads prevents vibration and makes the IMO screw pump smooth and silent even when running at high speed and high pressure. The simplicity of the design adds to its considerable appeal. Millions of these pumps are now in service around the world, in thousands of different applications.

In 1931, Montelius joined financier Bengt Ingeström to form IMO, a name formulated from their initials. The company continues in the tradition of these two prominent men.

Today, IMO pumps are used in over 50 percent of all ships built, ensuring consistently reliable performance in hydraulic systems, fuel and lube oil systems and oil transfer applications.

Our commitment to innovation is evident in the OptiLine pump, a three-screw leak-free pump with magnetic coupling which brings reductions in maintenance and spare parts costs as well as improved safety and low environmental impact.

Focus on customers

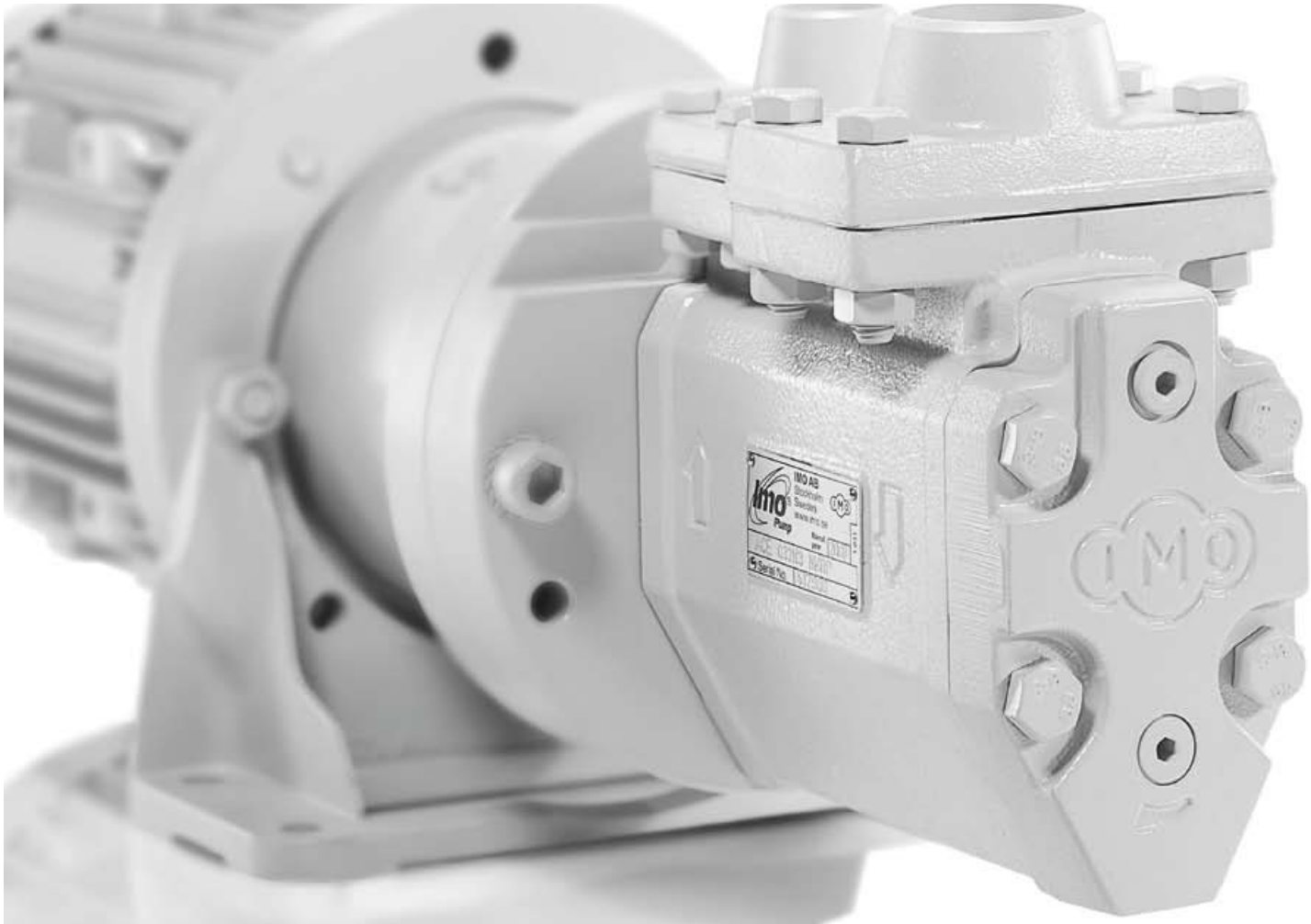
Technological innovation is only half the story behind IMO's continued success. A focus on constantly improving our response times and delivery dates as well as understanding our customer's concerns regarding service and support are what keep us at the forefront of the pump industry.

Choosing the right pump for your unique needs can be a challenge. Different situations demand different solutions. With IMO, you can rely on knowledgeable sales people and cutting-edge pump selection tools to ensure that the pump you purchase is the optimal solution for your operations. We'll also help you select the solution that has the right lifecycle and return on investment to best suit your business.

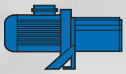
As part of the Colfax Group, we can leverage the product portfolios from among our sister companies to offer our customers a total package covering the entire range of low, medium and high pressure applications.

Product integrity and outstanding customer service are the cornerstones on which IMO has built a reputation for satisfied customers.

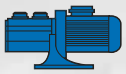
Our goal is to provide you with the pump you need, when and where you need it, so your business runs smoothly and efficiently.



VISCOSITY RANGE 1.4– 5000 CST



PUMP SERIES	LPD
MAX DISCHARGE PRESSURE, BAR	10
FLOW RATE L/MIN	2 – 20
VALVE BLOCK	NO
MAX TEMPERATURE	90°C

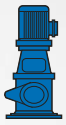


PUMP SERIES	ACD
MAX DISCHARGE PRESSURE, BAR	7
FLOW RATE L/MIN	10 – 40
VALVE BLOCK	YES
MAX TEMPERATURE	90°C

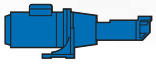
PUMP SERIES	ACE
MAX DISCHARGE PRESSURE, BAR	16
FLOW RATE L/MIN	10 – 180
VALVE BLOCK	YES
MECH. SEAL: MAX TEMPERATURE	155°C
MAGDRIVE*: MAX TEMPERATURE	180°C

PUMP SERIES	ACG
MAX DISCHARGE PRESSURE, BAR	16
FLOW RATE L/MIN	80 – 1200
MECH. SEAL: MAX TEMPERATURE	155°C
MAGDRIVE*: MAX TEMPERATURE	180°C

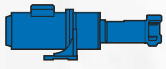
PUMP SERIES	ACF
MAX DISCHARGE PRESSURE, BAR	16
FLOW RATE L/MIN	310 – 2900
MAX TEMPERATURE	90°C



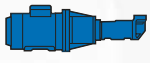
PUMP SERIES	LPQ /ABQ
MAX DISCHARGE PRESSURE, BAR	16
FLOW RATE L/MIN	1450 – 12300
MAX TEMPERATURE	90°C



PUMP SERIES	E4
MAX DISCHARGE PRESSURE, BAR	100
FLOW RATE L/MIN	10 – 850
MAX TEMPERATURE	90°C



PUMP SERIES	D4
MAX DISCHARGE PRESSURE, BAR	160
FLOW RATE L/MIN	10 – 850
MAX TEMPERATURE	155°C



PUMP SERIES	D6
MAX DISCHARGE PRESSURE, BAR	250
FLOW RATE L/MIN	100 – 900
MAX TEMPERATURE	90°C

*Magdrive (OptiLine) = Magnetic coupled design no mechanical seal needed.
All low pressure pumps are equipped with integral relief valves that can be used as a pressure regulating valves. All pumps can be mounted in any attitude, except for the large pump LPQ & ABQ series, which are intended for vertical mounting.

IMO pumps meet requirements for low viscosity (down to 1.4 cSt) according to ISO 8217:2005 and low sulfur (0.1%) as stated in EU/SECA 2005-33-EC. All while maintaining the same high reliability.

First-rate performance

Our commitment to research and development means that we can deliver the latest innovations to meet the changing demands of your applications as well as regulations regarding safety, fire prevention etc. We will help you adapt to changing fluid qualities and temperatures, and develop the appropriate solutions to extend the life of vital parts such as shaft seals and bearings.

The OptiLine pump has a magnetic coupling designed to handle extreme conditions such as high temperature and high viscosity fuel oils. The T5 double assembly unit, created to meet the demands for redundancy and compact design, is especially appreciated by module builders and shipyards due to its easy and fast installation.

Benefits of simplicity

IMO pumps are simple to understand, and with only three moving parts, there is little that can go wrong. When something does occur, the pumps can be quickly and easily repaired requiring only standard hand tools and general maintenance personnel.

The versatility of mounting and porting our pumps is proven by the thousands of foot-mounted, flange-mounted, horizontal, vertical in-tank and vertical free-standing units in operation today. Designing and installing a system with an IMO pump couldn't be easier.

Designed for efficiency

Our pumps are designed using internal bearings which are also hydraulically balanced so there are no loaded bearings either axial or radial. These design features mean less maintenance for re-greasing, less downtime and longer life.

IMO pumps work quietly at high speeds with a wide viscosity range. Operational savings can be achieved in the choice of a more compact pump as well as flexibility in handling changes to your fluid or parameter requirements.

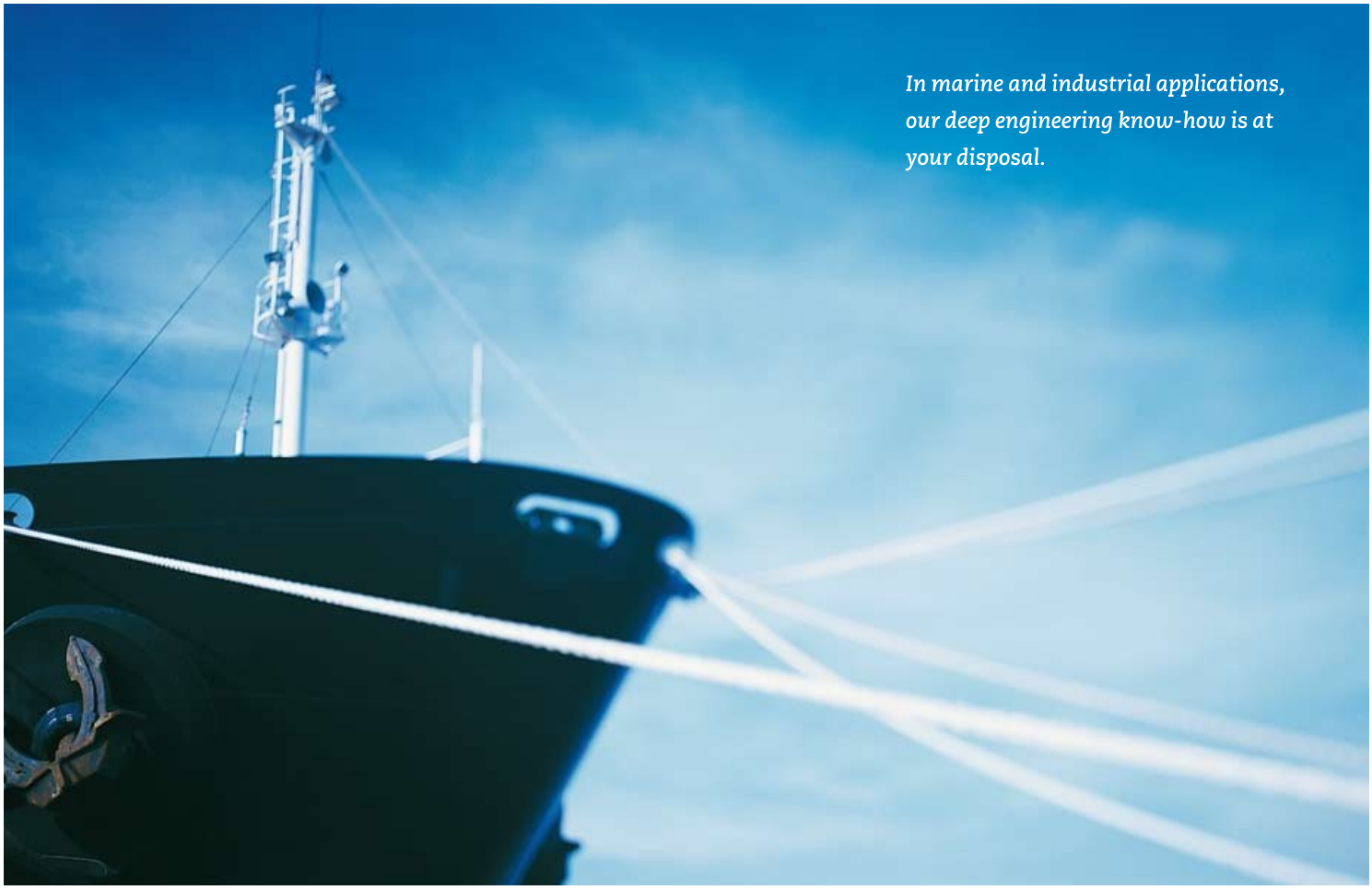
Leak-free future

The IMO three screw pump is ideal for handling all types of viscous fluid such as diesel and heavy fuel oils, lube and hydraulic oils. However, as with any pump based on a rotating shaft that extends through the wall of the pump, a certain amount of leakage is always to be expected. In certain cases this is unacceptable, for instance with heavy fuel oil.

OptiLine eliminates leaks by incorporating a complete enclosure where there is no shaft extension into open air and thus no need for a conventional seal. Power is transmitted into the pump over a magnetic coupling. A number of extremely strong rare earth permanent magnets affixed to the pump shaft inside the can are driven by a similar set of permanent magnets on the driver shaft outside the can.

Besides offering a leak-free operation that is environmentally friendly and ideal for exposed applications where safety is important, OptiLine makes financial sense with less costly downtime and spare parts. Since there is no wear on the magnets in the coupling arrangement, the maintenance cost is reduced to a minimum.

Return on investment for an OptiLine compared to a corresponding pump with a mechanical seal is often less than two years.



In marine and industrial applications, our deep engineering know-how is at your disposal.

Exceeding standards

An oil pump may only be a small component of the entire system, but a failure in the pump and resultant downtime can cause significant losses. For that reason, reliability, safety and low life-cycle costs are vital factors when choosing a pump.

IMO pumps are designed for a long life with high reliability so that you can be assured of lower maintenance costs and downtime as well as fewer warranty claims. Exceeding the demands of ISO 9000, we are committed to achieving the highest levels of manufacturing and product quality. Your purchase is fully backed by IMO with a one year warranty and an optional extended warranty.

Rapid response

To ensure the fastest and most convenient access to articles ranging from shaft seals, gaskets and ball bearings, IMO has authorized service points at key strategic locations. An internet-based search tool, Spares Master allows our distributors to quickly and efficiently find the part you need. The database not only contains parts for current pumps but also for pumps that were made many years ago – another assurance that IMO intends to support your business long into the future.

We understand the critical importance of keeping delivery promises. In addition, our expert technical support is always on hand. We'll respond quickly to your maintenance needs, and send out standard spare parts within 24 hours.

International network of distributors. Prompt, convenient delivery.

Lasting advantage

Our customers are spread across the globe, in locations and with applications that set ever higher demands not only on pump performance but also on support and service. IMO meets this challenge with a worldwide service and support network that is unmatched in the industry.

We recognize that the factors behind how you choose a pump have changed. Shorter life cycles and more standardized components are becoming the norm. To that, we have responded with manufacturing and design innovations that meet these needs. We also know that reliable delivery dates are vital. With a track record of over one million pumps delivered, you know that you can trust IMO to deliver your pump on time.

While technology is important, people are the force which makes IMO different from other pump companies. Many of our employees have committed their entire careers to the pump industry.

Our philosophy: We consider every pump delivered to be a partnership.


Imo
Pump