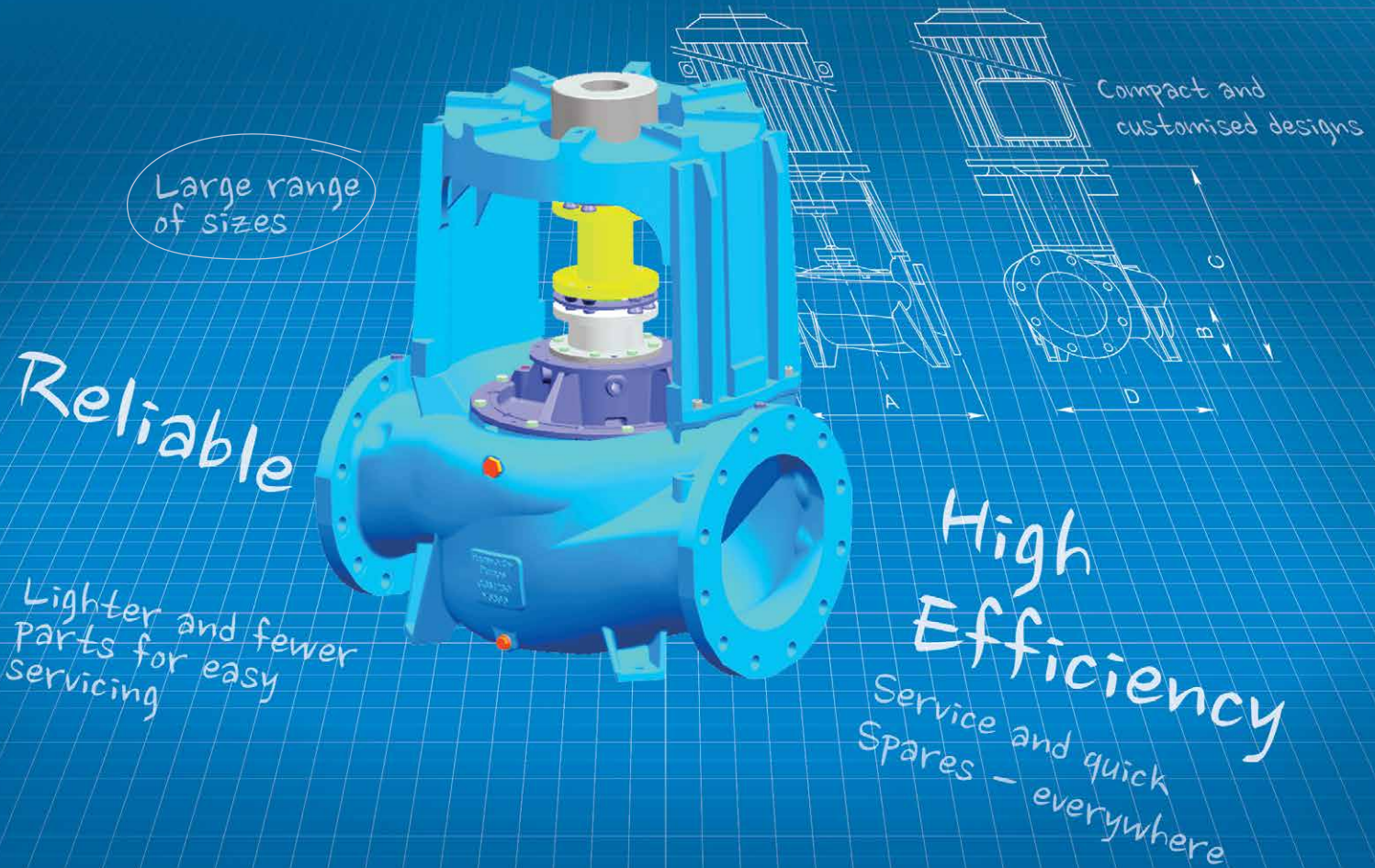


ENGINE ROOM PUMPS



FOR TOUGH OFFSHORE & MARINE APPLICATIONS

We are proud of our heritage because it is built on the most respected brands in the history of the industry.

We are sure of our capabilities because it is backed by decades of research and engineering.

We believe in our technology because it has an unrivalled performance pedigree.

We depend on our people because their excellence is integral to our success.

We aim to be the most respected and trusted supplier of pump technology in the world.

Engine room pumps are critical for your operations. The costs of pump failures such as loss of engine cooling water are high. That's why Hamworthy pumps are built for ultimate reliability, accessibility and efficiency in the toughest operating conditions. Highest quality materials, proven simplicity of design and responsive support add up to pumps you can trust absolutely as thousands of vessels around the world do.

Following the great success of the renowned Eureka and Dolphin centrifugal pump series, Hamworthy's continued research and development has led to the introduction of a series of pumps to better serve the shipping industry, both in terms of operational costs and hydraulic efficiency.

Hamworthy Pumps has more than 100 years experience in design and manufacturing of centrifugal pumps for the marine industry. The design provides considerable flexibility to offer alternative forms of construction to match customer needs and minimum number of parts to facilitate ease of assembly and disassembly during maintenance, etc. Whatever you need from engine room pump technology, talk to Hamworthy Pumps.

COMPLETE PUMP PACKAGES

Where an operating requirement is not fulfilled by one of our centrifugal pumps, Hamworthy Pumps offers a wide range of pumps, including screw and gear pumps, from partner suppliers to provide a complete pump package for your application.

COMPREHENSIVE CENTRIFUGAL PUMP RANGE

PUMP SOLUTIONS

PUMP TYPE	CAPACITY RANGE & PRESSURE	DESCRIPTION	ADVANTAGES	APPLICATION
CG	Capacity: 30-1100 m ³ /h Differential pressure: 15-120 mlc.	Vertical in-line single stage pump in single suction impeller, radially split casing with flexible spacer coupling and hydrodynamic sleeve bearing.	Long-established vertical between-bearings design. Pump is available as a tested bare-shaft replacement with own bearings.	Ballast, fire, fresh/sea water cooling & general service.
C2G	Capacity: 30-1600 m ³ /h Differential pressure: 15-150 mlc.	Vertical in-line pumps with overhung single suction impeller, radially split casing with rigid coupling.	Very compact size. Intergrated ball bearings and mechanical seal assembly enables a very short maintenance turnaround time.	Ballast, fire, fresh/sea water cooling & general service.
CGX	Capacity: 30-1600 m ³ /h Differential pressure: 15-150 mlc.	Vertical in-line pumps with overhung single suction impeller, radially split casing with flexible coupling.	Very compact size. Intergrated ball bearings and mechanical seal assembly enables a very short maintenance turnaround time.	Ballast, fire, fresh/sea water cooling & general service.
DOLPHIN	Capacity: 20-1400 m ³ /h Differential pressure: 10-130 mlc.	Vertical in-line, single-stage, single/double suction, overhung pumps with rigid coupling, radially split. Option for external bearings/flexible coupling on vertical single suction pumps. Horizontal end suction, single-stage, single suction, overhung pumps close-coupled or base-plated with flexible coupling.	Very robust design, double suction on larger pumps, end suction variants available.	ballast, fire, fresh/sea water cooling & general service.
CA	SINGLE STAGE Capacity: 800-4500 m ³ /h Differential pressure: up to 40 mlc. TWO STAGE Capacity: 100-400 m ³ /h Differential pressure: up to 120 mlc.	Between bearings pumps which can operate in both vertical in-line foot mounted and horizontal installations. Available in both single and two stage impeller.	Compact axially split casing design with double suction capabilities and low NPSH requirement.	Ballast water, fresh/sea water cooling, sea water lift.
CB	Capacity: 600-6000 m ³ /h Differential pressure: 150-180 mlc.	Between bearings single stage double suction impeller pumps that can operate in both vertical and horizontal installations.	Low shaft stiffness ratio and compact design in multiple orientations.	Cargo offloading, firewater, ballast, fresh/sea water cooling.
COBX	Capacity: 450-720 m ³ /h Differential pressure: 80-200 mlc.	Vertical inline or horizontal pumps with separate bearing bracket and product lubricated hydrodynamic bearing bushing, foot mounted, double suction impeller and double volute design.	Compact design, ease of maintenance.	Cargo offloading, firewater, ballast, fresh/sea water cooling.
CC	Capacity: 500-5500 m ³ /h Differential pressure: 40-160 mlc.	Radially split pump with double suction impeller, double volute casing, fitted with cartridge seal and hydrodynamic sleeve bearing designed for horizontal or vertical mounting.	Modern compact design, ease of maintenance, cartridge seal options.	Firewater, ballast, fresh/sea water cooling, cargo offloading.
CM	Capacity: 5-40 m ³ /h Differential pressure 10-50 mlc.	End suction monoblock pump, closed coupled in foot mounted compact design, single suction impeller.	Compact & inexpensive.	Water circulation.
CBF	Capacity: 300-1700 m ³ /h Differential pressure: 100-150 mlc.	Compact foot mounted end suction pump fitted with angular contact thrust bearings and product lubricated hydrodynamic bearing bushing.	Compact pump with multiple orientation options. Designed especially as fire pumps for external fire-fighting system (Fi-Fi) purposes.	Firewater, general service.

PRIMING SOLUTIONS

PRIMER	NOMINAL CAPACITY	DESCRIPTION	PUMP USED WITH PRIMER
PMB	75 m ³ /hr of free air (7 bar driving air)	The PMB and the MkIII air ejector systems consist of solenoid valves and a pressure switch that controls the starting of the pump automatically and ensures the pump is primed, with timer controlled in the starter panel.	CG, C2G, CGX, Dolphin.
PB		Vacuum pump stripping system provides automatic self-priming and capacity regulating.	CA, CB, CC.
VK	48 m ³ /hr of free air (1800 rpm)	The VK priming system consists of mainly an eccentric vane vacuum pump, circulating cooling water tank, mechanical clutch and auto cylinder. The auto cylinder automatic disengages the clutch to the motor coupling when the set pressure is met.	CG only.
PC		The PC system is designed to serve a series of centrifugal pumps. This system consist of vacuum pumps, starter panels, pressure switches, valves, water trap tank, heat exchanger etc., to automate the priming of a series of pumps.	All pumps except C2G and CGX.
LRP	50 m ³ /hr of free air (LRP50M), 1800 rpm	The LRP primer system uses a vacuum pump with air separator, float valve and vacuum relief valve to ensure the pumps are fully primed automatically.	All vertical pumps except C2G and CGX.

AN UNRIVALLED MIX OF ADVANTAGES

COMPREHENSIVE RANGE

Capacities to 6000m³ & pressures to 160mlc proven in marine & offshore applications.

COMPACT & CONFIGURABLE

Vertical & horizontal pumps with multiple orientations and configuration options for ease of installation and optimum use of available space.

PREMIUM MATERIALS

Nickel aluminium bronze used as standard for seawater in offshore applications. Stainless steel and duplex stainless steel options are available.

ROBUST DESIGN

Robust yet compact construction. Pumps designed for high efficiency and reliable suction performance with many decades of proven offshore service.

PROVEN OFFSHORE CAPABILITIES

Proven technical support, project management and offshore documentation capabilities. Noise & Vibration testing and factory acceptance test (FAT) facilities.

DEPENDABLE

A track record of dependable on-time delivery and support provided to all major shipyards.

GLOBAL SUPPORT

Over 85% spares requirements available from stock for distribution worldwide.



QUALITY, HEALTH, SAFETY & ENVIRONMENT

Hamworthy Pumps is operating with QHSE management system conforms to ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 and certified by DNV GL.

We also hold various product certification under Classification Societies such as ABS, BV, DNV GL, LR, NK and CCS.

EXPERIENCE AND SUCCESSES



ENI (FPSO)

Sea water/fresh water cooling pumps for topsides, auxiliary service pumps, bilge pumps: 2 x CBX, 2 x CAD, 2 x C2G

ShipownerENI

Shipyards SBM, Malaysia

TRANSOCEAN INC (DRILLSHIP)

Scope of supply: SW/FW cooling pumps, ballast pumps, bilge pumps, fire pumps: 15 x C2G, 10 x CGD, 9 x CGC, 6 x C12BA, 15 x CG

Shipowner TransOcean INC

Shipyards Daewoo Shipbuilding & Marine Engineering Co., Ltd (DSME), South Korea

ENERGY DRILLING (SEMI-SUBMERSIBLE DRILLING TENDER BARGE)

Scope of supply: SW/FW cooling pumps, bow monitor pumps, ballast pumps, fire pumps, auxiliary services pumps: 5 x CAC, 3 x CGC, 1 x C12BA, 4 x CBX, 1 x B125, 2 x C2G, 2 x CGB, 4 x CM

Shipowner Energy Drilling, Singapore

Shipyards Cosco Guangdong, China

SERVICES

Hamworthy Pumps offer expertise, proximity and responsiveness for all our customers in the most environmentally sound way.

Our Services & Support solutions range from basic support, installation and commissioning, performance optimization, upgrades and conversions to service projects and agreements focusing on overall equipment performance and asset management.

We always provide first class technical, spares and services support to our customer wherever they are around the world. In addition, we are well supported by agent representatives in all major shipping locations.



CONTACT US

Hamworthy Pumps Singapore Pte Ltd

15 Benoi Crescent
Singapore 629978
Singapore
Tel: +65 6261 6066
Email: SGPumpSales@hamworthy-pumps.com

Hamworthy Pumps UK Ltd

Unit 4C New Fields Business Park
Stinsford Road, Poole
Dorset BH17 0NF
Tel: +44 (0) 788 6851102
Email: gbpumps@hamworthy-pumps.com



The manufacturers reserve the right to alter the specification and data to incorporate improvements in design. Certified drawings will be issued on request.

© All details copyright Hamworthy Pumps

Website: www.hamworthy-pumps.com