



## Allweiler / Colfax Navy Group

Kaare Johansen, Managing Director Global Marines Sales Organisation

# Pumps for Navy Ships

Colfax Corp. is a world-leading pump manufacturer serving all branches of industry: marine and offshore, water and wastewater, power generation, process technology and chemistry, food and pharma, building industry, tool machinery, pulp and paper, heat transfer, biodiesel production and oil and gas. Commercial Marine and Naval applications are pivotal for Colfax.

The Colfax Navy Group integrates the resources of four world-renowned manufacturers:

- ALLWEILER of Germany – a specialized manufacturer of centrifugal pumps, three-spindle screw pumps and progressing cavity pumps.
- IMO – a supplier of screw and gear pumps based in the United States and Sweden.
- WARREN – an American manufacturer of centrifugal and two-spindle screw pumps
- HOUTTUIN – a supplier of two-spindle screw pumps based in The Netherlands.

The wide range of resources available at these companies makes the Colfax Navy Group the market leader in this industrial segment and a unique global partner for Naval customers. The commercial production and research activities of the Colfax Navy Group are focused in Europe and the United States. Colfax also has a large number of sales and service centres for all products.

### All Marine pumps from one source

Colfax Navy Group supplies the most advanced pump technology available for all types of naval vessels:

1. amphibious-warfare ships (landing craft)
2. destroyers, frigates, corvettes
3. aircraft carriers

4. submarines (nuclear and conventional)

5. fleet support vessels

Colfax offers pumps for every area of a naval vessel, including models specifically adapted for critical applications.

### Flight deck pumps

Aviation fuel transfer, fire fighting, wash down, deluge, hydraulics

### Engine room pumps

Ballast pumps, cooling water (sea and fresh), hot water circulation, fuel and lubricating oil, hydrophor, boiler feed, sewage and sanitary services, general service, condensate, fire fighting, bilge, main engine lube oil circulation, sludge, gearbox services, electric propulsion motor cooling, trim/weight compensation

### Superstructure pumps

Hydraulics, air con, water transfer

### Gun area pumps

Fire fighting, weapons cooling, hydraulics

Colfax Navy Group is represented by Kaare Johansen, Managing Director Global Marine Sales Organisation, Bob Allen Sales Manager GMSO Navy Group and Daniel Joslin, Director, Colfax France, Assembly, Testing & Packaging Navy Projects.

### Know-how

The Colfax Navy Group is a centralised repository of naval know-how and technology from Colfax Group's approved naval pump manufacturers. The Colfax Navy Group utilises 70 years of experience gained in practical long-term development and close collaboration with navies around the world.

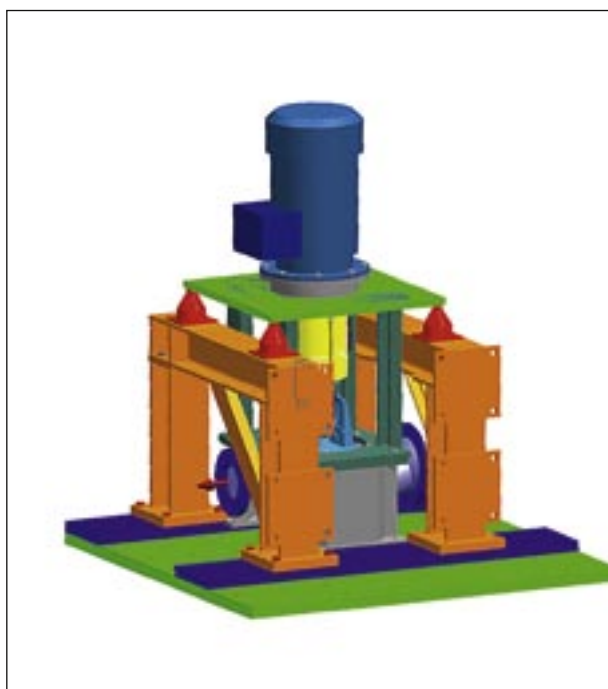
It focuses on high standards and performance as well as continuous product development and improvement based on end-user needs. Colfax supplies standardized solutions in addition to custom engineering based on existing designs. Specialised solutions from Colfax R&D departments include low noise pumps, weight-optimised lanterns, and reduced lifecycle costs. Certificates of shock, vibration, and noise calculations are supplied.

Colfax provides its own Navy Standard documentation package with all naval orders, but is happy to address other requirements specified by the customer.

Pumps from Colfax Navy Group are characterised by high Availability, Reliability and Maintainability (ARM); Long Mean Time Between Failure (MTBF); and Short Mean Time to Repair (MTTR).

This is made possible with:

- Standardised modular compo-



Allweiler

In-house Shock Calculations



nents – small inventory of spare parts, minimised fixed capital

- High quality materials and processes
- Maintenance-free designs (magnetic drive/canned motor)
- Specialised Colfax designs based on extensive naval experience
- Security of investment provided by:
- Established, respected manufacturer
- Solid financial base

**The benefits of a single supplier**

The Colfax Navy Group supplies complete naval pump packages, integrates third-party products, and offers turnkey solutions. With just one point of contact for orders, service, and documentation, the customer enjoys unrivalled convenience and efficiency.

**Service and support**

Colfax Navy has the global presence it needs to provide highly qualified expert advice as well as rapid and reliable support anywhere in the world. The Colfax Navy team works closely with every customer throughout the design, manufacturing, and delivery phases and keeps them up-to-date with technical data and documentation. Customers have secure online access to 2D and 3D drawings to facilitate integration into pipework layout design.



*Allweiler  
Navy Excentric Screw Pump Skid*

Consumable parts are delivered within 48 hours. Colfax guarantees availability of all spare parts for the lifetime of the pump. Modular designs use a large number of common standard parts to greatly reduce the customer's inventory. Simplified repair procedures are another significant benefit of modular designs.

The pumps are very flexible, ready to fit in a variety of installations, and optimised for low lifecycle costs.

**Certified quality assurance**

Pumps supplied by the Colfax Navy Group

comply with naval requirements regarding shock resistance, airborne and structure noise, vibration, and electromagnetic compatibility. Colfax employs only the highest quality materials for outstanding reliability and a long service life.

All Naval pumps are subject to stringent quality assurance measures, including a customised in-house shock-calculation program, a certified test bed for noise and vibration utilising Brüel & Kjær computerized measurement devices. Turnkey modules are completely tested and documented.

**Certificates**

Colfax performs multiple quality-assurance tests before delivering pumps to their customers. Initial tests follow an internal ISO 9000 system and are followed by testing and certification according to naval requirements.

Products from Colfax meet required naval specifications, including some with type approvals. Class Society approvals (DnV, GL, LRS, RINA etc) can be provided as required.

**Summary**

**The Colfax Navy Group**

- One supplier for all Naval pumping packages.
- Specialized designer and experienced manufacturer of products optimized for Naval applications.
- Extensive experience with European, American, and Asian navies.
- All Naval questions solved pragmatically.
- All challenges answered with reliable, Naval-specific solutions.



*Allweiler  
Inline Centrifugal Cooling Water Pump*