Re-introduction of Thune Eureka Marine as a pump supplier to the Marine Market
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Our lineage in the pump industry is dating back to 1889 and in 1961 we started manufacturing and sales of centrifugal pumps to the marine market.

**Significant milestones**

- **1898** Eureka Mekaniske & Elektriske Verksted was established in Oslo
- **1901** - Started the production of steam driven piston pumps.
- **1903** - Started the production of ship engines.
- **1905** - Bought a foundry, a work shop with hydro power plant, a pattern shop and a shop for forging.
- **1961** Eureka start with centrifugal pumps.
- **1968** Eureka merge with Kværner – mainly because of their common interest in the ship market.
- **1969** Eureka merge with Thune and the new name of the company is Thune-Eureka A/S.
- **1974 – 1978** Thune-Eureka move the whole activity to Tranby outside Oslo
- **1975** – the oil crises creates challenges for the company
- **1976** Eureka start to develop API 610 pumps for the oil & gas industry.
- **1987** Thune-Eureka change the name to Kværner Eureka.
- **1992** The marine pumps is moved out to a new Kværner owned company called Kværner Ships Equipment.
- **2003** Kværner Eureka change the name to Kværner Oilfield Products.
- **2005**, Kværner Oilfield Products change the name to Aker Kværner Subsea.
- **2007** Bjørge acquire the Eureka Pump division from Aker. Manufacturing of the API 610 pump design was started at our Serumsand location
- **2011** Change of name to Eureka Pumps AS.
- **2015** Thune Eureka Marine established as a daughter company.
Re-introduction of Thune Eureka Marine as a pump supplier to the Marine Market

Thune Eureka Marine shall deliver a complete scope of supply covering all relevant pump applications and systems for various vessel categories and sizes worldwide as listed below:

The Thune Eureka Marine scope of supply:

- Complete Engine Room Pump Packages
- Cargo Distributed Solutions Systems
- Complete Pump Room Systems
- Utility Systems:
  - Ballast Water Systems
  - Tank Cleaning & Crude Oil Washing Systems
  - Portable Loading Systems
- Engineered pump solutions
- Operational support
- Spare Parts, Replacement Pumps
- Re-engineering and modification of installed pumps and systems
- Service

The pump range will cover the various applications listed in the matrix attached to the end of this letter.

Contact information:

- **Cargo pumps and pump systems**
  - Mr. Tom Gustavsen
  - Mobile +47 906 64 671

- **Engine Room Pumps**
  - Mr. Per Steinar Hanssen
  - Mobile +47 971 23 656

E-mail: marinepumps@eureka.no
Re-introduction of Thune Eureka Marine as a pump supplier to the Marine Market

A key focus for us is to provide products and services to our clients to ensure:
- Lowest possible CAPEX and OPEX
- A significant contribution to increased availability

The basic structure for our concept is the existing Eureka Delivery & Operational Concept, which covers all aspects of the life cycle of the equipment/systems, includes the following scope:
- Service
- Hardware
- Engineering
- Logistics
- Functionality through Integrated Operations

Spare parts and replacement pumps:

Please note that we offer a full range of spare parts and replacement pumps to the Eureka CG range of Pumps.
Operational Support & Services:

We know that for you as a ship owner or operator a key element will be our capability as a supplier to provide you with spare parts and operational support & services locally here in Norway and worldwide.

Facilities in Norway:
In Norway, we have the required infrastructure through the Eureka Pump and test centre facilities located in:

- Risavika (Tananger) workshop & test centre
- Kristiansund acquisition
- Hammerfest.

In addition, we have a large test and assembly facility for pumps and generators in Sørumsand north of Oslo and our Operational Support Engineering Dept. in Råde outside of Fredrikstad.

Integrated Operations:
All locations have interactive support centers with full HD Video & Conference Capability – direct dial or virtual. We also offer Engineering support and detailed trouble shooting online from our.

Features:
- System Support - Operation Support - Diagnostic Checks
- Trouble Shooting - Condition based Maintenance - Data acquisition - Integrated Operation
Facilities worldwide

For worldwide operational support, we are in the process of establishing agreements with strategic partners that have the required infrastructure and facilities in strategic locations, combined with the required expertise to ensure a high level of operational support 24/7.

From all of these strategic locations, we will be able to provide:

- Local sales of the Thune Eureka Marine (TEM) scope of supply:
  - Complete Pump Range
  - Pump Systems
  - Spare parts and retrofit pumps
  - Modification and upgrades of pumps and pump systems
- Local stocking & commissioning sales of spare parts/retrofit units for fast delivery
- Provide Service and Operational support on TEM products and systems
Thune Eureka Marine cover the following Pump Range

<table>
<thead>
<tr>
<th>SFI MAIN GROUP</th>
<th>SFI GROUP No.</th>
<th>SFI SUB-GROUP</th>
<th>TYPE OF PUMP</th>
<th>CAPACITY REQUIREMENTS</th>
<th>TOTAL HEAD</th>
<th>TEMPERATURE</th>
<th>MATERIAL HOUSING</th>
<th>MATERIAL IMPPELLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQUIPMENT FOR CARGO</td>
<td>3</td>
<td></td>
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<tr>
<td>35</td>
<td></td>
<td>LOADING AND DISCHARGING SYSTEMS FOR LIQUID CARGO</td>
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<td></td>
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<tr>
<td>353</td>
<td></td>
<td>- IN PUMP ROOMS (OIL)</td>
<td>Centrifugal</td>
<td>1000-5000 m3/h</td>
<td>100-150 m</td>
<td>20-60 °C</td>
<td>Cl, Bronze</td>
<td>Ph. Bronze, NiAlBr, SS</td>
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<tr>
<td></td>
<td></td>
<td>- IN PUMP ROOMS (Bitumen)</td>
<td>Screw, Gear</td>
<td>100-500 m3/h</td>
<td>100-150 m</td>
<td>120-200 °C</td>
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<td>SS</td>
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<tr>
<td>354</td>
<td></td>
<td>- IN CARGO TANKS</td>
<td>Deepwell</td>
<td>20-2000 m3/h</td>
<td>70-180 m</td>
<td>20-60 °C</td>
<td>SS, Duplex</td>
<td>SS, Duplex</td>
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<tr>
<td>355</td>
<td></td>
<td>- FOR LPG, LNG</td>
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<td>N/A</td>
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<td>SEPARATE STRIPPING SYSTEMS</td>
<td>Ejectors / PD</td>
<td>1,0-2000 m3/h</td>
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<td>20-60 °C</td>
<td>Bronze, SS, Duplex</td>
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<td>382</td>
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<td>TANK CLEANING SYSTEMS</td>
<td>Centrifugal</td>
<td>30-1100 m3/h</td>
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<td>20-60 °C</td>
<td>Cl, Bronze</td>
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<td>SHIP EQUIPMENT</td>
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<td>STABILIZERS (ANTI-HEELING)</td>
<td>Centrifugal Pumps</td>
<td>100-1500 m3/h</td>
<td>30 m</td>
<td>0-32 °C</td>
<td>Cl, Bronze, Duplex</td>
<td>Bronze, Duplex</td>
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<td>EQUIPMENT FOR CREW AND PASSENGERS</td>
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<td>581</td>
<td></td>
<td>SANITARY SUPPLY SYSTEMS</td>
<td>Centrifugal</td>
<td>2-15 m</td>
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<td>20-70 m</td>
<td>Amb.</td>
<td>Cl, Bronze</td>
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<tr>
<td>582</td>
<td></td>
<td>SANITARY DISCHARGE SYSTEMS</td>
<td>Centrifugal, Gear</td>
<td>*included in sewage treatment plant (dependent on frequency of discharges)</td>
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<tr>
<td>584</td>
<td></td>
<td>POTABLE WATER SYSTEMS</td>
<td>Centrifugal</td>
<td>1-10 m</td>
<td></td>
<td>20-70 m</td>
<td>Amb.</td>
<td>Cl, SS</td>
</tr>
</tbody>
</table>
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<th>MATERIAL IMPELLER</th>
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<tbody>
<tr>
<td>SYSTEM FOR MACHINERY MAIN COMPONENTS</td>
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<tr>
<td>701 FUEL OIL TRANSFER SYSTEMS</td>
<td>7</td>
<td>Gear, Screw</td>
<td>5-600 m</td>
<td>30-50 m</td>
<td>20-40 °C</td>
<td>CI</td>
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<tr>
<td>703 FUEL OIL SUPPLY SYSTEMS</td>
<td>7</td>
<td>Gear, Screw</td>
<td>2-100 m</td>
<td>500-600 m</td>
<td>40-80 °C</td>
<td>CI</td>
<td>SS</td>
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<tr>
<td>711 LUBE OIL TRANSFER SYSTEMS</td>
<td>7</td>
<td>Gear, Screw</td>
<td>5-100 m</td>
<td>20-30 m</td>
<td>15-40 °C</td>
<td>CI</td>
<td>SS</td>
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<tr>
<td>713 LUBE OIL SUPPLY SYSTEMS</td>
<td>7</td>
<td>Gear, Screw</td>
<td>2-500 m</td>
<td>30-50 m</td>
<td>40-60 °C</td>
<td>CI</td>
<td>SS</td>
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<tr>
<td>721 SEA WATER COOLING SYSTEMS</td>
<td>7</td>
<td>Centrifugal</td>
<td>400-5000 m</td>
<td>20-100 m</td>
<td>0-32 °C</td>
<td>Bronze, Duplex</td>
<td>Bronze</td>
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<tr>
<td>722 FRESH WATER COOLING SYSTEMS</td>
<td>7</td>
<td>Centrifugal</td>
<td>5-500 m</td>
<td>20-50 m</td>
<td>50-80 °C</td>
<td>CI</td>
<td>Bronze</td>
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<tr>
<td>755 CONDENSATE SYSTEMS</td>
<td>7</td>
<td>Centrifugal</td>
<td>5-150 m</td>
<td>30-130 m</td>
<td>33-70 °C</td>
<td>Ci, Bronze</td>
<td>Bronze</td>
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<tr>
<td>CONDENSER CIRCULATING SYSTEMS</td>
<td>7</td>
<td>Centrifugal</td>
<td>2000-10000 m</td>
<td>2-10 m</td>
<td>0-32 °C</td>
<td>Ci, SG iron</td>
<td>Ph. Bronze</td>
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<tr>
<td>756 FEED WATER SYSTEMS</td>
<td>7</td>
<td>Centrifugal</td>
<td>5-150 m</td>
<td>100-900m</td>
<td>80-150 °C</td>
<td>SS</td>
<td>SS</td>
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<td>SHIP SYSTEMS</td>
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<tr>
<td>801 BALLAST SYSTEMS</td>
<td>8</td>
<td>Centrifugal</td>
<td>30-3000 m</td>
<td>20-60 m</td>
<td>0-32 °C</td>
<td>Ci, Bronze, Duplex</td>
<td>Bronze, Duplex</td>
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</tr>
<tr>
<td>803 BALLAST SYSTEMS</td>
<td>8</td>
<td>Deepwell</td>
<td>50-2000 m</td>
<td>20-60 m</td>
<td>0-32 °C</td>
<td>Bronze, Duplex</td>
<td>Bronze, Duplex</td>
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</tr>
<tr>
<td>813 FIRE/WASH DOWN, EMERGENCY FIRE &amp; GENERAL SEVICE PUMPS</td>
<td>8</td>
<td>Centrifugal, Helical screw, Screw, Piston</td>
<td>5-50 m</td>
<td>20-60 m</td>
<td>0-32 °C</td>
<td>CI</td>
<td>SS</td>
<td></td>
</tr>
</tbody>
</table>

---

**EUREKA**

Part of **ALIGN**
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