



ACO Marine – member of the ACO Group

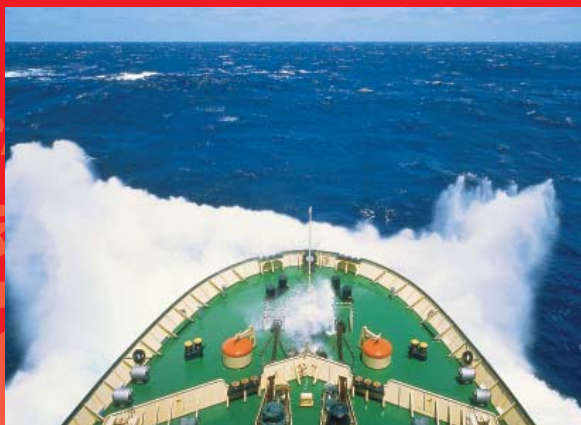
*Ecological systems for ship building
and off-shore installations*

ACO Group:

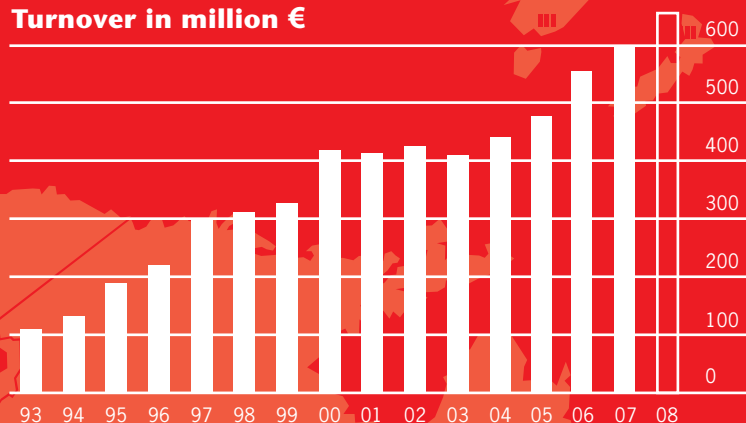
ACO group is leading supplier of complete solutions in the area of collecting and cleaning waste water.

A short introduction to the ACO Group:

- founded in 1946 ACO by Josef-Severin Ahlmann
- more than 3.800 staff in 40 countries (Europe, America, Asia, Australia)
- 31 production sites in 12 countries
- turnover 2007: Euro 602 million



Turnover in million €



ACO Marine ecological solutions for the shipbuilding industry

ACO MARINE is a member of the international ACO Group with a sales network operating worldwide. ACO MARINE's unique ecological systems are used primarily in waste water technology, preparation and processing technology and safety and security technology. The wide range of products covers equipment from multi-purpose applicable outlet bodies, pipe systems made from steel and high-grade steel, to grease separators and waste water treatment plants. Pressure loaded pipe systems for fire extinguishing systems in ship building and other industries is another product bearing the ACO Marine guarantee.

ACO MARINE itself produces standard and purpose-specific parts and components made from steel, stainless steel, mild steel, PP (polypropylene) and PE HD (polyethylene).

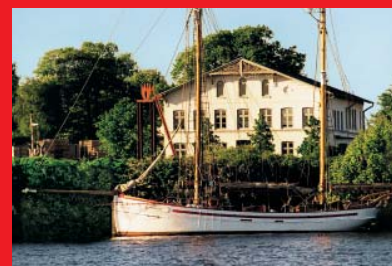
The main features of all ACO MARINE products are as follows:

- *Ecological system concepts*
- *High performance standard*
- *Reliability*
- *High resistance level*
- *Innovative technology*
- *Certified investment and technology recognized worldwide*

The ACO Marine component structure in shipbuilding engineering

In addition to that mentioned above, ACO Marine is your partner for component structures that provide complete, ecological, complex and certified technology for the shipbuilding industry.

As your partner, ACO Marine will provide you with competence, quality and a high level of effectiveness in ecological shipbuilding worldwide, from the first plans to the final handover of the product.



Germany – ACO Headquarter in Rendsburg



United Kingdom - Shefford



Denmark – Ringsted



Czech Republic – Přebyslav

ACO Marine

ACO PIPE® System



The ACO PIPE® socketed pipe system made from stainless steel provide a modern alternative compared with plastic and zinc-coated pipes for water drainage equipment equipped with various media straying. The ACO Pipe® system has proved high level of resistance against aggressive media. Multi-purpose based versatile program of fittings represents in connection with the ACO drainage technology wide-range based offer of full scope integral solution. Simple assembly and installation, high level of savings with respect to weight in comparison with conventional solutions and high level of corrosion resistance proves high cost efficiency of the ACO Pipe® socketed pipe system made from high-grade steel. The ACO PIPE® socketed pipe system is recognized and permitted by all known ship's registers.

ACO Marine steel socketed pipe system



The ACO Marine GM-X systems made from steel are another quality product made by ACO Marine to be used in ship drainage and safety technology. By applying special components in the GM-X

system, the drainage system will change to the safety system for the fire extinguishing equipment. The GM-X-F fire extinguishing system is designed for a PN-16 operating pressure. New technology makes the GM-X systems available in many different forms, easy to assemble and install and cost effective in ship building technology. The ACO Marine GM-X steel systems meet all the requirements of both the ship building industry and offshore technology. The GM-X systems are recognized and authorised by all maritime registers worldwide.

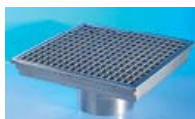
ACO Marine Waste Water Treatment Technologies

Thanks to constant innovation and development in waste water treatment, ACO Marine has developed a new waste water treatment plant - the ACO Maripur. This system marries new waste water treatment technologies with the latest requirements for ecological shipbuilding. The system represents the highest level of waste water treatment technology thanks to the following.



- *Low operating costs*
- *Effectiveness of equipment meeting the highest of requirements*
- *Small compact modular design compared to conventional solutions*
- *Module stability*
- *ACO technology is suitable for cleaning grey and black water systems in the ship building industry.*
- *The black water systems can be operated even on separate engineering equipment*
- *The products are suitable for gravity and vacuum waste water systems*
- *Easy assembly and installation disassembly of all modules*
- *Automatic operation*
- *Easy handling*

ACO Marine channels and gratings



ACO Marine is your partner for planning, engineering, designing, manufacturing and problem solving when it comes to special requirements in water drainage. Our wide range of solutions means we can meet every customer's needs. In addition to normal drainage engineering, ACO Marine can supply products based on a variety of aesthetically pleasing stainless steel grates and covers.

ACO Marine Gullies



ACO Marine has designed a new and wide range of multi-application high performance stainless steel floor gullies.

Examples of applicability areas

- *Washing facilities*
- *Large gullies*
- *Sanitary units*
- *Pool-type and swimming pool facilities*
- *Deck drainage*

ACO Marine Grease Traps



ACO Marine presents its new series of grease separators that guarantee ship transport stability. The tank accumulators are filled with a mixture of water and grease during operation. The grease separator is divided into two zones:

Zone I Upper part of the grease separator

In the dome area the various types of grease are accumulated and, thanks to permanent heating, are maintained in liquid state then discharged automatically.

Zone II Lower part of the grease separator

In the lower part of the grease separator sludge is accumulated and liquidated in a separate grease and sediment collecting vessel. Clean water flows continuously from the grease separator.



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Note: ACO Marine is represented world-wide by its own agency net. We advise you about your nearest agent. Call us.