A NEW WAVE
Offshore oil and gas
decommissioning and the
opportunities it represents

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Under Construction

The Panama Canal expansion project will double its capacity and allow for more and larger ships to travel through
More than 37 years of experience in developing and offering solutions to the marine firefighting industry

Marine Firefighting

Since 1974, Jason has offered a wide range of firefighting solutions for FiFi I, II and III. In addition, the Jason portfolio features telescopic monitor masts and tailor-made engineering solutions for our customers. The Jason vision is based on intelligent design, high quality and low maintenance requirements at competitive prices.

Dispersant solutions

Designed for spraying optimal quantities of dispersant liquids onto surface based oil slicks. Intended for all vessels catering to the offshore services for optimal oil spill prevention. The Jason product suite is available as external, built-in or mobile solutions - according to NOFO standard.

Visit our webpage to learn more about all our products  >  www.jason.no
For its direct customer base, which is made up predominantly of the owners of supply vessels that carry fire rescue equipment on board, Jason Engineering has been providing an invaluable service to the industry since 1974 when it first began producing marine fire fighting systems and components.

Today the company is at the forefront of developing and offering intelligent compact design and integrated solutions and is renowned for its highly skilled and experienced engineering team, which plays a crucial role in allowing Jason Engineering to be a flexible partner. It also aids the company in being able to maintain its commitment to construct both standard equipment and tailor made solutions to meet each customer’s needs and specifications.

At the heart of the company’s success is its range of products and its customer-orientated approach to fire fighting solutions. By having open channels of positive communication with all of its clients, Jason Engineering has been able to implement timely and pertinent product improvements and new, innovative features throughout the years, ensuring it remains a leading player in the field of fire fighting technology.

This dominant market position is perhaps most apparent in regards to the company’s OGF 250X350 FIFI (fire fighting) pump: “This pump has what is undoubtedly the most popular FIFI pump design in the world,” states Svein Østreng, sales manager at Jason Engineering.
"In the past the industry had to make do with very heavy, costly and space consuming double suction pumps. This changed in 1996 when Aker Kvaerner Subsea introduced a new, single suction pump to the shipping market that boasted reduced weight, cost and size. Jason acquired Aker Kvaerner Subsea in 2007 and with it the pump design. Being the only pump of its kind at the time it became a market-leading product throughout the late 1990s and into the early 21st century."

The pump is not Jason’s only popular product, however. Previous to its introduction to the portfolio, the company had a long history of manufacturing monitors including a wide range of long barrel, single flow path water monitors, foam monitors with straight jet-type water nozzles and foam monitors with jet-fog nozzles. It also runs a line of prominent gears and transmissions for fire pumps as well as the high speed, turbo-charged diesel engine driver. These continue to be important assets to Jason’s business.

“The company’s core product offering is known as a Ship Set,” explains chief operating officer, Anette Berger. “A Ship Set is made up of three key components, the pump, the Monitor and the gear transmission. These systems and each of their components work together to combat the risk posed by fire and each Ship Set is carefully designed and manufactured in-house by Jason.”

Oil spill protection equipment has been a part of the Jason product suite for the past ten years. It commenced with light Spray booms, which were retro fitted on vessels using a hinge-based system on the side of the vessel. There has been, and to some degree still is, discussions regarding the use of oil dispersant solutions on offshore oil spill and the environmental impact it has on marine life. The official requirements from both the government and environmental groups regarding offshore oil spills have been to gather the oil at sea. It is common knowledge that traditional technical equipment for the gathering of oil spills in arctic areas has been limited due to the climatic conditions and especially along the Norwegian coast. Recent environmentally focused research and results involving the use of oil dispersants at sea have made the use of dispersant more commonly accepted – especially when used in conjunction with a mechanical collection of the oil slick. SINTEF has been and continues to be at the forefront of scientific research involving environmental factors and how weather conditions impact oil spill at sea.

For the past few years, Jason Engineering has enjoyed a close and mutually beneficial collaboration with SINTEF in Trondheim. Through said collaboration, Jason has designed and manufactured technical equipment for effective use of onboard dispersant systems. Jason Engineering and SINTEF have been at the forefront of this development, ensuring that a NOFO standard for dispersant systems have been established.

In May 2009, a team of engineers from Jason Engineering worked closely with a SINTEF team on a scientific experiment called ‘oil on ice’. The experiment took place in the ice floe north east of
Hopen with very satisfying results. A mountable compact dispersant system was designed and constructed for arctic climates (conditions were minus 15 degrees Celsius and oil spill between ice floe). A 12 meter long hydraulically operated arm, sectioned and packaged in a ten-foot container was fitted with a 1000-liter tank containing the dispersant solution as well as hydraulic and electric control systems.

Based on the close collaboration and experiments made in conjunction with SINTEF and input from NOFO, Jason has developed and put into production a series of dispersant systems for emergency and supply vessels. Today, Jason Engineering delivers turnkey solutions ranging from light manual systems containing two mountable spray arms and a pump, to advanced built-in solutions for vessels with the Ulstein X-Bow design. This system is remote controlled via radio controllers. In addition, an automatically prepared variable dosage system can be put in place if and when equipment for oil spill thickness detection is developed. As of 2012, Jason is unrivaled internationally in terms of both knowledge and technology regarding offshore vessel-mounted oil dispersant systems.

“The market for these is different in the sense that it is very much tailor made, with each system having to be designed for use on a certain vessel. Nevertheless, demand is slowly growing as more customers discover the effectiveness of the product,” Svein says. “In the past dispersion chemicals were poorly regarded for the negative effect they themselves had on the environment. Today these chemicals are much more environmentally friendly and these systems allow for a more efficient level of dispersion,” Anette adds. “During the Deep Water Horizon incident an enormous amount of dispersant chemical was used, and because it came through an older system much of it was not used in an efficient manner. Jason’s systems work to combat this problem, something that is really important as they now become a natural part of complete oil spill prevention packages.”

Anette states that, although standard volumes were lower throughout 2011, business opportunities remain as numerous as ever and Jason Engineering has maintained a stable turnover. This is a fact that, ironically, can in part be attributed to the Deep Water Horizon incident itself: “What this event did was draw attention to two things, the dispersal solution and the fact that all of the vessels involved in the rescue operation where equipped with what is known as FIFI1 systems. These proved to have a smaller capacity than what was required for such an incident and as a result more companies started casting their eyes to the FIFI2 system, a package with three times the capacity of FIFI1, which is used more widely in the Norwegian North Sea oil market. This has resulted in more operators based in areas like the Gulf of Mexico and Latin America adopting a European approach to fire fighting.”

Regardless of how dramatically the marine industry may evolve in the years ahead, the need for Jason Engineering’s services will likely always remain strong. Historically the company has been known to be leaders in bringing new, innovative solutions to market before anyone else, a trait it is determined to continue with: “Jason has always led the way in developing and delivering important fire fighting systems,” Svein enthuses. “With the acquisition of Aker Kvaerner Subsea and the incorporation of its production assets with Jason Engineering’s now complete, the road is now clear for the company to step up its work to a whole new level - something that it expects will assist in ensuring Jason Engineering remains the market’s first choice for fire fighting and dispersal solutions.”