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## EUROPEAN UNION MARINE CLUSTER – MAKING OF

*European ship-building has a long history. One of the most important shipyards has been the Papenburg yard in Germany. The Meyer Werft shipyard was founded already in 1795. Turku and Helsinki in Finland have been known for their fine cruise vessels and good customer relationship with Royal Caribbean Cruise Line. Nowadays, Meyer Werft makes excellent deliveries to this company led by Mr. Richard Fain.*

*Cruise business is the core of the very finest marine business. There is big money involved. Year after year, people want to see the Caribbean Islands. We all want to find something special to our life.*

*As we all know, the yard business in Turku, Rauma and Helsinki yards has had difficult times in recent years. But we Finns, also, have a history, especially in cruise ship building. And what is the most important thing, we have a fully functional marine cluster in place. There is a group of companies who have references of large vessel projects and also conversions. These companies have been active also in the Meyer Werft cruise projects.*

*Here's a good question: what if it was possible to create a European Marine Cluster to connect European Marine know-how together in this hard, competitive, global marine business world. I am thinking about European Union Northern Europe industry strategies.*

*When we think about the future of the ship-building in Europe, I can see the co-operation of Finnish marine cluster and German shipyards as the most important link in the shipyard business. When we think about the German-Finnish link, the key issue is the good relationship between the Turku shipyard and TUI Cruises, specifically Mr. Richard Vogel, the CEO of the company.*

*We are pleased to float out this superb cruise ship according to the schedule, said Mr. Jari Anttila, Deputy CEO of STX Finland. The vessel was Mein Schiff 3, the location Turku and date 8th November 2013. Those were the good news.*

*When conducting good business, there is, in the centre, always a human being, like both Richards and Jari, who take the responsibility of decisions and also production. That is why it is important to remember and connect together these people who are a part of the recent history of the industry.*

*I will not be in Miami this year. I will retire at the end of February. This is my last magazine.*

*But I can foresee already in March the nice stand of Meyer Werft in the Miami Convention Center, near by the doors through which people are coming into the exhibition hall. The stand is modest but the position in the hall is the best possible.*

*That is the place where Northern Europe Marine Cluster people could meet.*

RISTO VALKEAPÄÄ  
EDITOR-IN-CHIEF





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Fincantieri in Italy is one of the largest shipbuilding groups in the world. It operates in the design and construction of complex hi-tech ships, such as naval vessels and modern cruise ships. For the Carnival Group, Fincantieri's Monfalcone shipyard has built various ships, including the recently completed 'Royal Princess'.

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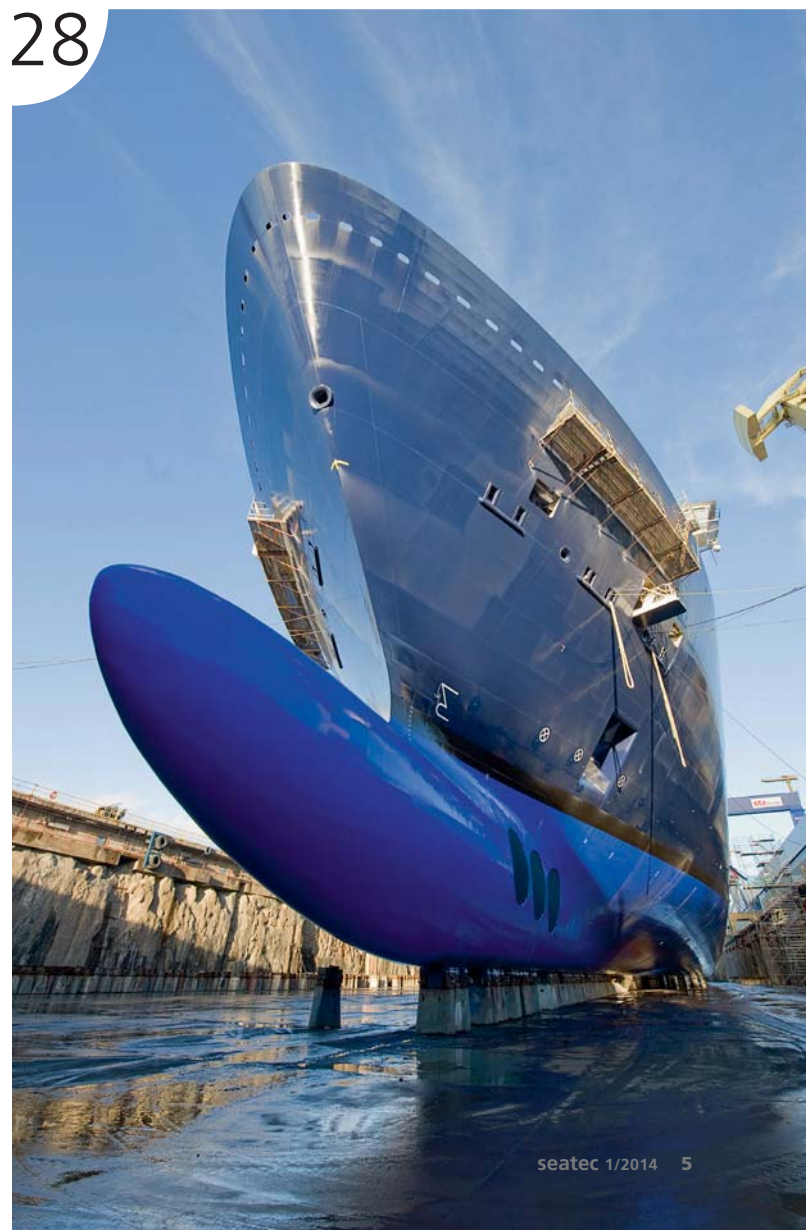
The start of production for TUI Cruises' environmentally friendly cruise ship 'Mein Schiff 3' was celebrated at STX Finland's Turku Shipyard approximately one year ago. In November 2013, the float-out for this new cruise ship was carried out. The ship is scheduled to be completed in the spring of 2014. Another TUI cruise ship 'Mein Schiff 4' is also currently being built at Turku shipyard, to be delivered one year after her sister ship.

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# Winning the Waves

## ENTERTAINMENT EDGE AND GREEN MINDSET COMBINE TO MAKE NORWEGIAN CRUISE LINE A SUCCESS STORY OF THE SEAS

*Cruise business is still very much alive despite troubled global economy. SEATEC Magazine asked Kevin Sheehan, President and CEO of Norwegian Cruise Line, about the future trends of the business.*

Photos: Norwegian Cruise Line

Looking at the opportunities and challenges ahead, Sheehan comments that today's customer is "more savvy than ever before" and is looking for a full on-board experience during his/her cruise. As a response to this development, Norwegian Cruise Line continues to elevate its own brand with key partnerships with brands like Nickelodeon for families, Geoffrey Zakarian for its dining programme, Broadway shows and the Grammys.

According to Sheehan, the main idea is to expand the guest experience and make the ship a destination unto itself. He also credits his troops: an "incredibly talented" team that plans the company's next generation of ships is crucial to the cruise line's success. Creating exciting, once-in-a-lifetime cruise vacations remains the core concern.







## GREEN LIGHT GO

How about environmental issues, such as green hi-tech on ships, then – how strongly do they guide the CEO's decision-making? Sheehan responds by pointing out that Norwegian Cruise Line is a leader in environmental practices and that is a key element of the company's mission and values.

"Both Norwegian Getaway and Norwegian Breakaway were designed with the latest 'green' state-of-the-art technology on board. We've also announced that we have installed scrubbers on Pride of America and will have them on our next class of ships – Norwegian Escape and Norwegian Bliss – as the first new builds to have this technology," Sheehan says.

"We are very forward-thinking when it comes to the environment and we will continue to look at ways to enhance our

commitment to the environment," he adds.

According to the CEO, Norwegian Breakaway and Norwegian Getaway have elevated the company's Freestyle Cruising product to a whole new level with more choices than ever before.

"We see a huge demand for both of these ships coming in at relatively high yields, thus making them two of the most successful ships within our fleet. As a Miami-based company, it makes us proud to have such a fantastic ship as Norwegian Getaway sailing year-round out of Miami."

## WELCOME TO MIAMI!!

Next up on Sheehan's itinerary is the Christening Ceremony for Norwegian Getaway on February 7, 2014. Sheehan says that the company is very excited to welcome

"Miami's ultimate ship" to her year-round homeport as Norwegian Cruise Line returns to her roots as the first Caribbean cruise line to ever sail from Miami.

"We have not had a ship sailing year-round from Miami to the Caribbean in more than 10 years, so this is quite a big deal for us." Adding some extra spice in the Christening event, Miami Dolphins Cheerleaders will be appearing as the official Godmothers of Norwegian Getaway – which should be entertaining enough. But wait, there's more:

"We also have a few surprises in store for guests during the ceremony and we will have fireworks for all of Miami to enjoy as we sail out later that night," he says, adding that the ship is sure to light up the town with energy and excitement as she makes her, eh, getaway.





In Sheehan's mind, "Miami's ultimate ship" is no empty boast. First of all, Norwegian Getaway will be the largest ship sailing year-round from PortMiami. She will feature many elements that the city is known for and brings the tropical feel

of Miami and South Florida to sea, like one of the company's complimentary restaurants, the Tropicana Room, which immerses guests in the glitz and glamour of the Miami Beach night life of the 1940s and 50s.

"We're also serving several Latin-inspired food choices at several restaurants and bars, and guests can get a feel for the city's iconic architecture in our SVEDKA/Inniskillin Ice Bar with South Beach's Ocean Drive skyline and palm trees





etched into the icy walls. Of course, we also have our spectacular hull artwork designed by Miami native David 'LEBO' Le Batard which really makes the ship stand out," Sheehan lists but some of the highlights.



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## DOHA DOMINANCE

It certainly seems that Sheehan and his crew know a thing or two about how to win the people over. At the World Travel Awards 2013, Norwegian Cruise Line walked away with the 'World's Leading Large Ship Cruise Line' honours – making the company the top global cruise line for the second consecutive year.

The honour was given at the World Travel Awards' 20th annual Grand Final Gala, held on November 30 in Doha, Qatar, and is based on votes by travel agents and consumers across the globe to recognise travel companies that provide outstanding products and customer service. In addition to the award for top cruise line worldwide, Norwegian Cruise Line has also received the award for "Europe's Leading Cruise Line" for the past six consecutive years from the World Travel Awards, and has been named "Caribbean's Leading Cruise Line".

But what about the key demographics for Getaway – and beyond? Is there a "dream customer" that the CEO wants to reach? Sheehan explains that the Norwegian Getaway, and the company's fleet in general, are custom-built for Norwegian's Freestyle Cruising experience, which gives guests the freedom and flexibility to design their ideal vacation at sea.

"This means giving our guests a range of dining options – up to 29 – and lots of variety in accommodations from Studios designed and priced for solo travellers to our luxurious suite complex The Haven by Norwegian."

## THE FUN PART

And, yeah, there is no going around the entertainment bit: according to Sheehan, the cruise line offers "the most innovative line-up at sea" including Broadway shows like the musical *Legally Blonde* or the dance sensation *Burn the Floor* and

comedy by Levity Entertainment Group and the very first Grammy Experience at sea, with performances nightly by Grammy winners and nominees.

"Also, with Norwegian Getaway, we are introducing the Illusionarium, an all new mystical dining and entertainment experience that is going to envelop guests in magic and supernatural effects."

Given the enormous choice in all areas, Sheehan feels that the cruise line has truly created a product that appeals to a wide range of customers, from solo travellers and couples to families and groups of friends. And it looks like the Caribbean is not going out of style – ever.

"The Caribbean is one of the hottest destinations and in high-demand from our guests, so we're thrilled to bring this brand new ship to Miami and sail year-round to the islands," Sheehan sums up. ■

SAMI J. ANTEROINEN





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# Meyer Werft GmbH is building a new generation of cruise ships

*In recent times, the famous Meyer Werft shipyard in Germany has participated in a multitude of projects involving the construction of innovative large-scale cruise ships.*

*Currently under construction is 'Quantum of the Seas', Royal Caribbean Cruises Ltd.'s first Quantum-class ship. Another first, Norwegian Cruise Line's 'Norwegian Breakaway' – the largest cruise ship ever constructed in Germany – has been in service since May 2013.*











**F**ounded in 1795, the Meyer Werft GmbH shipyard in Papenburg, Germany, has been responsible for building approximately 700 ships in total in its first two centuries of operation. At present, the shipyard is one of the largest in the world.

Meyer Werft and Royal Caribbean signed a contract for building a new class of cruise ship on 11 February, 2011. Code named 'Project Sunshine' in the early stages, the ship was later named 'Quantum of the Seas' – the first of the Quantum class

ships. According to schedule, the ship is expected to be ready by late autumn of 2014.

In early 2012, Royal Caribbean Cruises Ltd. ordered a second ship of the same type for the Quantum cruise-ship class. This second ship was named 'An-





them of the Seas' and is scheduled for delivery in 2015.

In May 2013, a Meyer Werft and Royal Caribbean signed a contract for even a third Quantum class ship, to be delivered in the summer of 2016.

#### **SHIP DESIGN INCLUDES INNOVATIVE FEATURES**

Once completed, the 'Quantum of the Seas' will have length of 348 metres and a width of 41 metres. Having 167,800 gross register tons, the ship features 15 decks

and 16 elevators. The regular passenger capacity is 4 180 and the maximum capacity 4 905.

The cruise ship will be equipped with Azipod XO propulsion units and four 4,694 horsepower engines, yielding a speed of 22 knots. The sister ship 'Anthem of the Seas' will feature similar propulsion capabilities.

As to ship sizes, Royal Caribbean's new Quantum class will be somewhat larger than the Freedom class but slightly smaller than Oasis class.

According to Royal Caribbean Cruises, the design for this new generation of Quantum class cruise ships integrates new features as well as proven characteristics of the existing ships of the Royal Caribbean's fleet.

The 'Quantum of the Seas' will incorporate energy-efficient and environmental technologies. While other Royal Caribbean's cruise ships have a high level of energy-efficiency, the new Quantum class is expected to take environmental issues one step further.

"Royal Caribbean International is famous for offering the most innovative ships of the cruise ship industry," has noted Mr. Richard D. Fain, Chairman and CEO of Royal Caribbean Cruises Ltd.

#### **INAUGURAL VOYAGE IN NOVEMBER 2014**

Up to now, Meyer Werft and Royal Caribbean have more than 20 years' experience of cooperation in the building of cruise ships.

"We are very glad to be able to continue our long-standing cooperation with Royal Caribbean International. The shipping company stands for innovative ship building projects," says Mr. Bernard Meyer, Managing Director of the Meyer Werft shipyard.

The standpoint of Royal Caribbean Cruises is that the 'Quantum of the Seas' will be quite unique amongst the world's cruise ships – at least until her sister ship is launched.

While information on the ship's new innovations has been scarce, it has been



revealed that the open deck area will be equipped with a skydiving simulator (Rip-Cord). Further, there will be a glass capsule called North Star, sort of a rotatable observation tower for lifting passengers to close to 100 metres above the sea.

Furthermore, the ship will have a large indoor sports arena at sea, suitable

for various types of sports – up to bumper car races and roller skating or night-club dancing.

Virtual balconies are to be installed in interior staterooms so that passengers can enjoy authentic real-time views of the ocean or destinations. In addition, state-room accommodation space will be built

to allow more flexibility than usually, so that families can select the most suitable layout solutions.

The official inaugural voyage for the 'Quantum of the Seas' has been set for 23rd November, 2014. Cruises are being planned from New York to the Bahamas and to Eastern and Southern Caribbean.





## ADDITIONAL SHIPS FOR NORWEGIAN CRUISE LINE

Another spectacular and innovative cruise ship sailing to the seas from New York is the 'Norwegian Breakaway' operated by Norwegian Cruise Line. This ship was also built by Meyer Werft GmbH in Germany.

One significant difference between this ship and the 'Quantum of the Seas' is that this one is already in operation. The first cruise between New York and Bermuda started on 12th May, 2013.

This luxury liner consists of 73 steel blocks and has a gross tonnage of 144,017 tons. The 'Norwegian Breakaway' is the

largest cruise ship ever manufactured in Germany. The length of the ship is 324 metres and width 39,7 metres.

The ship has been built in accordance with the innovative "Freestyle Cruising" concept that ensures maximum individuality, freedom and flexibility on board to the passengers. The 'Norwegian Breakaway' is





*The Breakaway's sister ship 'Norwegian Getaway' is expected to be completed by April 2014.*



has – among other features – 27 restaurants and 22 bars.

The ship's total of more than 2 000 cabins have been designed for up to 4 000 passengers in regular use. The maximum number of passengers is around 5 000.

The construction of the sister ship 'Norwegian Getaway' has also started at Meyer Werft's shipyard. That ship will en-

ter service in April 2014. Both of these cruise ships represent Norwegian Cruise Line's new Breakaway class.

#### **LONG-STANDING COOPERATION**

Shipbuilding operations got started when Norwegian Cruise Line announced in October 2010 that it had reached an agree-

ment with Meyer Werft GmbH of Germany to build two new next generation cruise ships for delivery in spring 2013 and spring 2014, respectively. The contract price for the two vessels was approximately 1.2 billion euros.

Meyer Werft in Papenburg has also built Norwegian Cruise Line's four Jewel-class ships: 'Norwegian Gem' delivered in





2007, 'Norwegian Pearl' and 'Norwegian Jade' delivered in 2006, and 'Norwegian Jewel' delivered in 2005. These new Break-away-class vessels are the eighth and ninth that the Company has built with Meyer Werft GmbH.

The keel laying for the 'Norwegian Breakaway' was celebrated at the Meyer Werft shipyard on 4th May, 2012. On

26th February, 2013, the ship floated out of the shipyard's covered building dock II. The seaworthiness tests were carried out in March 2013.

The ship was completed in April 2013. Since May, the 'Norwegian Breakaway' has been sailing from Manhattan, N.Y., to Bermuda, Florida, the Bahamas, and the Southern Caribbean. Ports of

call in the Caribbean include St. Thomas, Barbados, Basseterre, and St. Kitts. ■

MERJA KIHIL  
ARI MONONEN



# Monfalcone shipyard built the 'Royal Princess'



*Fincantieri in Italy is one of the largest shipbuilding groups in the world. It operates in the design and construction of complex hi-tech ships, such as naval vessels and modern cruise ships.*

*For the Carnival Group, Fincantieri's Monfalcone shipyard has built various ships, including the recently completed 'Royal Princess'.*









**O** riginally founded as a financial holding company, Fincantieri is continuing the tradition of Italian shipbuilding.

At present, the Fincantieri group consists of a network of 21 shipyards, four design centres – one of them for naval research – and two production sites concentrating on the manufacturing of systems and mechanical components. Overall, Fincantieri has a team of 19 000 people worldwide.

Since the year 1990, Fincantieri has built close to 60 cruise ships. A number of further cruise ships are under construction or scheduled to be built at Fincantieri's shipyards in Italy.

Fincantieri's Monfalcone shipyard has a long history of building cruise ships for Carnival Group and its Carnival Cruise Lines and Princess Cruises fleets.

Amongst the recent cruise ships Fincantieri's Monfalcone shipyard has built for

Carnival are the 'Carnival Magic' and the 'Royal Princess'.

#### **CONSTRUCTION STARTED IN 2011**

Carnival's new cruise liner 'Royal Princess' was constructed by Fincantieri for the British-American cruise line Princess Cruises, a brand owned and operated by the Carnival Corporation.

The ship is the third in the cruise liner





fleet to be named 'Royal Princess' by the company. The original 'Royal Princess' ship was decommissioned in 1996.

Completed in June 2013, the 325-metre ship can accommodate 3 600 passengers and 1 346 crew members. Cruise speeds of up to 22 knots are possible.

Shipbuilding got underway when Carnival awarded a contract to Fincantieri – Cantieri Navali Italiani in May 2010.



*Fincantieri shipbuilders in Italy have a long history of building large cruise ships.*









Photo: courtesy of Princess Lines

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The contract was for building two new cruise ships for Princess Cruises.

Construction of the first ship 'Royal Princess' was started in Monfalcone shipyard in March 2011. The ship's keel, weighing approximately 500 tons, was laid in October the same year.

The sister ship is scheduled to be launched in 2014. Both ships will be the largest in the fleet operated by Princess Cruises. The cost of each ship is estimated to be around 558 million euros.

#### LUXURY FEATURES AND ENTERTAINMENT

The completed ship 'Royal Princess' has 17 decks. Furthermore, the ship has 1 780 passenger cabins. They consist of 732 balcony cabins, 306 mini suites, 342 inside cabins, 40 private balcony suites and 360 deluxe balcony cabins. Also, 780 additional upper berths have been fitted.

*The 'Royal Princess' entered service in June 2013.*





Photo: courtesy of Princess Lines

*A swimming pool has been constructed onto the top deck of the 'Royal Princess'.*

Special features on the ship include an outdoor dance club and two swimming pools.

The ship also has a pool-side theatre called Movies Under the Stars. The central atrium – the Piazza – is larger than on the fleet's previous ships. The atrium has been designed for entertainment, dining, and retail facilities. It has two marble spiral staircases that are lit with glass domes.

Other new features include several restaurants and lounges. There is also a

gelateria, a seafood bar, an Italian cocktail bar and the Celebrations gift shop.

The 'Royal Princess' also has an over-water walkway called SeaWalk. The walkway reaches beyond the edge of the cruise ship by six metres and has a glass bottom for ocean views.

On the seventh deck, the ship has a 280-seat entertainment area with studio and café space. The entertainment area can be utilised for musical performances, television broadcasts, and other events.

The official naming ceremony for the new 'Royal Princess' was held on 13th June, 2013. The ship was named by The Duchess of Cambridge.

Also in June 2013, the ship conducted a seven-day maiden voyage from Southampton to Barcelona. Further destinations included Venice and Fort Lauderdale. ■

MERJA KIHIL  
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**FORESHIP** 



# TUI's new cruise ship was launched in Turku

*The start of production for TUI Cruises' environmentally friendly cruise ship 'Mein Schiff 3' was celebrated at STX Finland's Turku Shipyard approximately one year ago. In November 2013, the float-out for this new cruise ship was carried out.*

*The ship is scheduled to be completed in the spring of 2014. Another TUI cruise ship 'Mein Schiff 4' is also currently being built at Turku shipyard, to be delivered one year after her sister ship.*





*The float-out for the cruise ship 'Mein Schiff 3' was carried out at STX Turku Shipyard in November 2013.*

*Photos: STX Europe*





**T**UI Cruises GmbH's 'Mein Schiff 3' and 'Mein Schiff 4' are highly innovative and sophisticated cruise ships of 99 000 gross register tons (GT). When completed,

the ships will be approximately 295 metres long and 36 metres wide. Each ship will have a crew of 1 000 people.

The building periods of these two

ships are reported to be record-breaking tight. New building practices with high block outfitting ratio and modularisation have been largely utilised. New innova-





tive and efficient building concepts – such as the outer decks concept – have also been used and they have proved to be successful.

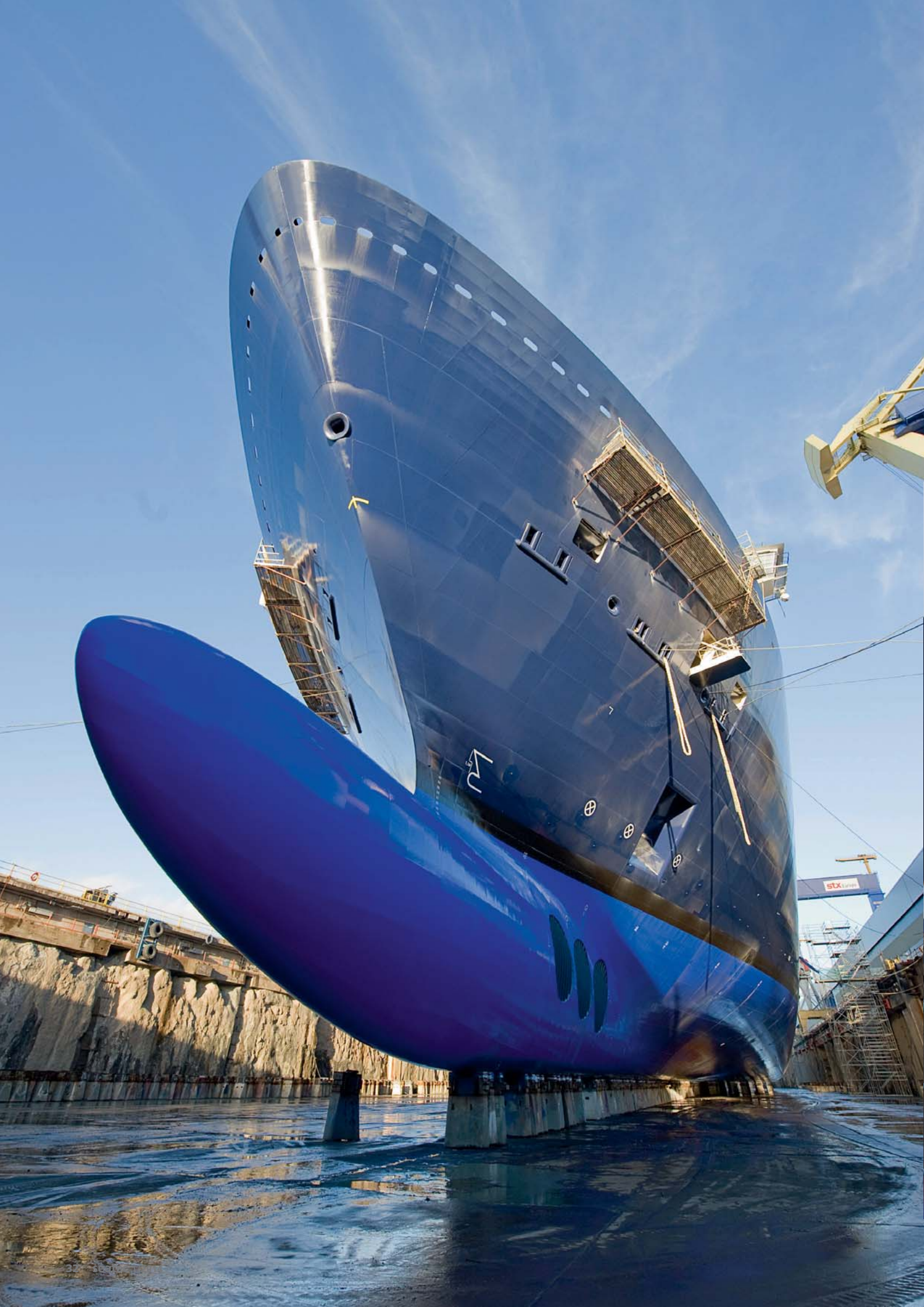
#### **FINAL ASSEMBLY IN THE NEXT FEW MONTHS**

The new TUI cruise ships will include various environmentally friendly features. For

one thing, the ships will have a combined system for treating exhaust gases. The purpose is to minimise sulphur, nitrogen oxide, and fine dust and soot emissions.









Compliance with the 'safe return to port' requirement is also included.

Furthermore, particular emphasis has been put on the ship's energy efficiency. The ship has been designed to consume around 30 per cent less energy than other cruise ships of similar dimensions.

The float-out of 'Mein Schiff 3' was performed at STX Turku Shipyard on 8th November, 2013.

The dry dock was filled with up to 300 million litres of seawater. After this, the ship could be moved into position at the outfitting quay where the final assembly for the inner and outer areas will be



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carried out during the next few months. This includes the final installation of the various systems of the ship and interior outfitting.

"We are very pleased to float out this superb cruise ship according to schedule," said Mr. Jari Anttila, Deputy CEO of STX Finland Oy.

Also present at the float-out ceremony were TUI Cruises' CEO Richard J. Vogel and the future captain of 'Mein Schiff 3', Mr. Kjell Holm.

#### **MODERN INSULATION REDUCES WEIGHT**

Both of the TUI cruise ships will be

equipped with modern technical insulation solution to meet the requirements of the marine industry for fire protection, as well as for thermal and acoustic insulation.

By the end of 2013, the insulation was already installed for 'Mein Schiff 3'.

"The TUI cruise ships are the first vessels where the U coefficients for thermal conductivity were taken into account in thermal insulation design," says Mr. Matti Reijonen, Product Line Manager for Saint-Gobain.

For thermal insulation of the ship's structures, Saint-Gobain's Isover glasswool insulation plates with thicknesses of 100 to 150 mm were installed. A combination of

glasswool and stonewool was utilised for fire insulation, with insulation thicknesses of 60 to 70 mm.

"This will ensure a quiet and energy-efficient cruise for the passengers."

"The ship's insulation now weighs 50 percent less than the standard insulation weight for ships of similar sizes. This saves energy considerably," notes Reijonen.

A total of 150 000 square metres of insulation plates was installed aboard 'Mein Schiff 3'. Of this amount, two thirds were for fire insulation. ■

MERJA KIHIL  
ARI MONONEN





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**Hamburg Messe**





# The man who designed the largest cruise ships

*With more than 40 years of experience of designing ships, Mr. Harri Kulovaara – a Finnish engineer and naval architect – has become the leading cruise ship innovator for the Miami-based Royal Caribbean Cruises Ltd., the second-largest cruise line in the world.*

*He joined Royal Caribbean in 1995 and has served as the company's Executive Vice President (Maritime) since January 2005.*

**B**orn in Helsinki in 1952, Harri U. Kulovaara graduated in 1970 from Helsinki Technical University. He then joined the maritime company Effjohn Oy Ab and worked as a naval architect, starting out by designing a tugboat.

Since those days, he has largely been dealing with much larger ships.

Before starting work at Royal Caribbean in 1995, Mr. Kulovaara served as executive vice president and chief operating officer for Oy Silja Line Ab. The company is one of the leading cruise ferry operators in Finland.

At Royal Caribbean Cruises Ltd., Kulovaara previously served as Senior Vice President (Quality Assurance) and as Senior Vice President (Marine Operations). In the

Photos: Royal Caribbean International







Start of Block Assembly S. 097  
167,800 GT Passenger Cruise Vessel  
"QUANTUM of the Seas"  
for  
Royal Caribbean Cruises Ltd.  
02.08.2013  
Royal Caribbean  
MEYER WERFT





late 1990s, Royal Caribbean combined its marine operations and quality assurance functions.

Kulovaara was appointed Executive Vice President (Maritime) in 2005.

#### **GOING FOR BIGGER AND BETTER SHIPS**

At present, Mr. Kulovaara is responsible for Royal Caribbean's fleet design and new-build operations.

Royal Caribbean Cruises Ltd. (RCCL) has a long common history with the Finnish maritime industries. As early as in 1969, the company negotiated with the Finnish Wärtsilä shipyard for the building of RCCL's first cruise ship. This resulted in a contract for building the 'Song of Norway', the world's first Caribbean cruiser.

After 1995 – when Mr. Kulovaara has been responsible for the construction program for RCCL's new cruise ships – the Finnish shipyards in Helsinki and Turku have built numerous giant cruise ships for Royal Caribbean Cruises. Amongst them were the five Voyager-class cruise ships de-



signed for over 3 000 passengers. At the time, those ships were the largest of their kind in the world.

In fact, the first of the Voyager-class vessels was 60 percent to 70 percent larg-

er than any cruise ship that shipyards or Royal Caribbean had ever built. After this, the step from Voyager-class to Freedom-class ships meant an increase of 15 percent in ship sizes.





## INNOVATIVE SHIPS TO BE EXPECTED

Mr. Kulovaara has noted that when ships are built longer and wider than their predecessors, there are obvious advantages of scale: passengers will have more space for various kinds of gadgets and other entertainment.

This philosophy is particularly apparent in RCCL's first Quantum-class ship 'Quantum of the Seas' that is currently under construction in Germany. That cruise ship is reported to include even a skydiving simulator.

"I like challenges that involve taking something that has not been done before and doing it," Kulovaara stated in an interview with Avid Cruiser.

Having now become one of eight board members on the Management Board at RCCL, Kulovaara has made it to the South Florida Business Journal's Top Ten list of highest-paid South Florida cruise executives. He received compensation of

\$1.62 million in 2012, including his base salary of \$500,000. The sum is up from \$1.5 million in the previous year.

He also has more responsibilities than before. They now include environmental and safety issues, and strategic planning.

On the ship front, RCCL's 'Quantum of the Seas' and 'Anthem of the Seas' will be delivered in 2014 and 2015, respectively.

The company's third Oasis-class cruise ship is expected to be delivered in middle to late 2016. The contract with STX France has an option for building a fourth Oasis-class ship to be delivered in 2018. ■

MERJA KIHIL  
ARI MONONEN

*For the background information for this article, we are thankful to: Avid Cruiser; Equilar Atlas; South Florida Business Journal; Vapaa Sana; and Royal Caribbean's press information and archive sources.*

**Your Global Exhibition Partner**



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[www.arvelin.fi](http://www.arvelin.fi)



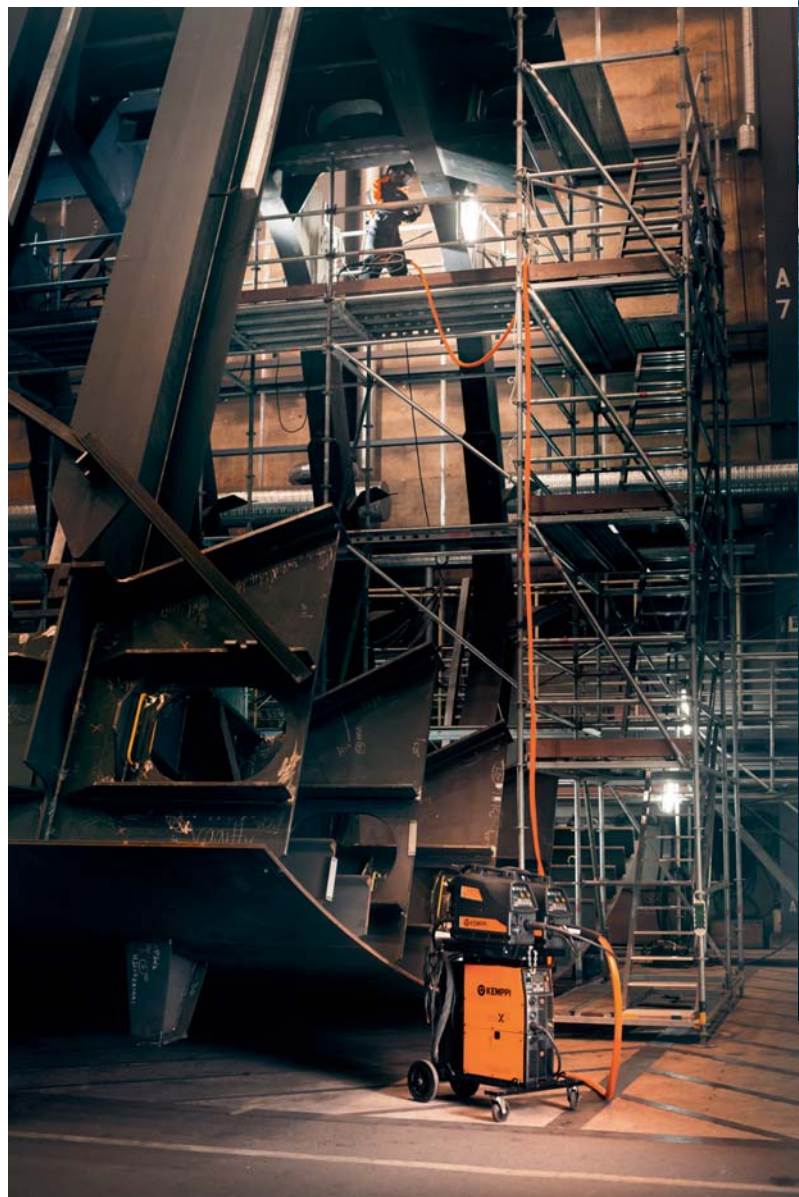
## FastMig X 450, Multi-purpose welding solution and the ultimate pipe welding champion

*The FastMig X 450 is a multi-process CC/CV power source that is ideal for synergic and pulsed MIG/MAG welding, MMA welding, and TIG welding. Used in combination with MXP wire feeders, it forms a welding system that easily meets every welding need and the quality management requirements of any metal fabrication workshop. The system is designed to fulfill the strict demands of the ISO 3834, Norsok, ASME, and EN 1090 manufacturing standards.*

**T**he solution is highly versatile. For example, it enables you to connect two wire feeders, allowing a very rapid change in welding processes, filler wire type, and wire size.

The Wise solutions provide further flexibility for specific welding applications: for example, WiseRoot+ meets the special requirements of root welding, and exact arc voltage measurement provides easy and precise control of the device.

Finally, in addition to MIG/MAG and 1-MIG welding, pulsed MIG/MAG is possible, by means of a software package, which can be delivered with machine or purchased later.



Shining a spotlight on welding quality Features such as compatibility with the ArcQuality welding quality management system, the arc voltage display, and optional EN 1090 standard WPS packages ensure that the welding quality strictly conforms to the requirements set for off shore, shipbuilding, and power production projects, along with work in steel construction projects for execution classes EXC2 to EXC4.

The Wise choice for every application Kemppi offer a family of welding software products that help you optimise your welding quality and efficiency in applications ranging from thin sheets to heavy structures. They also minimise production costs and make the technique easier on the welder. ■

More information: [www.kemppi.com](http://www.kemppi.com)





## WatMan SWRO

*It means less energy, less maintenance, less down-time, less costs and more customer satisfaction*

**S**eawater Reverse Osmosis (SWRO) rejects typically 98.5–99.5 % of the salinity in one pass. In large-scale production, energy consumption creates a noticeable expense. In conventional SWRO systems, typical energy consumption varies from 6 to 10 kWh/m<sup>3</sup>-fresh water, depending on salinity, temperature and recovery rate among others. In state-of-the-art systems with energy recovery the energy consumption can be as low as 2...4 kWh/m<sup>3</sup>-fresh water.

On the other hand, 1-pass SWRO can produce fresh water with about 100 mg/l of chloride at its best. These high rejection systems always need an average feed pressure of

55–70 bars. So called 2-pass SWRO can remove even up to 99.9 % of the total salinity, meaning less than 20 mg/l of chloride, without significantly increasing the energy consumption. These high rejections are often required to achieve high potable water quality.

WatMan SWRO Systems can help you to produce extremely low-salinity fresh water with very low energy consumption. This means less energy, less maintenance, less down-time, less costs and more customer satisfaction. Less is sometimes more. ■

*More information: [www.watman.fi](http://www.watman.fi)*





## Cruise ship conversions special area Foreship knows energy saving Optimization of the hull

**T**here will be more and more cruise ship conversion projects in the world. Conversion is a growing area. We have also noted in Foreship that business with vessel conversions has already been a long time more important than new building", Managing director Mr. Lauri Haavisto of Foreship Ltd. says.

Lauri Haavisto leads naval engineering company which special area is to understand fluid dynamics as well in conversion cases as well as in new building. The key question is how to find better energy efficiency to customers to save money by that way.

"The starting with our customer case is a feasibility study after which it is the moment to make a decision if it is profitable to go on renewals."

He takes an example of ducktail which is a lengthening of the aft ship. There is a possibility to remarkable improvement in total energy consumption. Optimisation of bulb is always a good question to study.

"We are well known for large scale cruise ship conversion projects, structural engineering and new building concept designs. With our help you can find the cost efficient way to realize your conversion, without problems with stability or class approval. Our state of art conversion feasibility studies answer all the ques-

tions and give you a valuable tool for asking a bid package and getting authorities' approval for your project", Mr. Haavisto says.

"We are specialist in hull form optimisation by Computational Fluid Dynamics (CFD). Foreship has a role also in finding an optimal hull form for new cruise vessels as well as conversion cases. We help to understand, visualise and analyse phenomena, find reasons and observe consequences. The result is energy efficient fuel saving vessel."

"We have completed more than 1 000 projects, including among others large amount of conversion projects and new building concept designs, project management tasks, engineering of a SOX scrubber and other ship installations, several interior and HVAC design projects for cruise ships and ferries, numerous basic design projects and the design of a rock climbing wall."

### NEW COMPANY IN MIAMI

Foreship Ltd. is an independent company, owned by the employees. In Finland the offices are located in Helsinki and in Turku Area Kaarina. In Åland Mariehamn Foreship announces November 2013 the acquisition of Queo Consulting Ltd., a highly-experienced electrical engineering. Queo Consulting covers various areas of elec-



trical design, ranging from feasibility studies to basic and detail design as well as site supervision. Foreship has also company in Miami and in future it will be more active also in United States.

"Our personnel of more than 50 naval architects, marine & structural engineers and interior & HVAC designers can provide you the flexible, high quality and personal services by a company of right size. Our tools include NAPA and other state of the art software", Haavisto says.

"Our customers include the largest cruise lines like RCCL and

other ship owners, shipyards and maritime suppliers, our turnover distributed between these three areas. Due to our recent projects we have wide knowledge of the latest rules, including references on designs with new probabilistic damage stability and safe return to port regulations." ■

*More information: [www.foreship.com](http://www.foreship.com)*

RISTO VALKEPÄÄ

## "Safety is the first priority..." Bureau Veritas follows the changes of safety rules



**"S**afety is the first priority when designing and operating a passenger ship. Exceptional difficult weather conditions have made safety questions more and more important also in Baltic Sea area. Safe return to port is sometimes critical question in the hard storms with very high waves", Finnish country manager Mr. Olli Kaljala of Bureau Veritas says.

"Recent cruise vessel disasters has put the spotlight on passenger safety. The cruise industry made an unprecedented effort to deliver new procedures and policies for operational safety", Mr. Olli Kaljala says.

Bureau Veritas is following the changes in rules and requirements closely and is ready to advise operators and yards on the new requirements. They cover: additional lifejackets readily accessible at the assembly stations, on the embarkation deck or in lifeboats; review of the emergency instructions on board ships taking into account the languages likely to be understood by the passengers; muster drill for embarking passengers prior to departure from every port of embarkation, if the duration of the voyage is 24 hours or more; limited access to the bridge during any period of restricted manoeuvring, or while manoeuvring in conditions requiring increased vigilance; ensuring that the ship's voyage plan has taken into account IMO's Guidelines for voyage CLIA has submitted further safety policies to IMO for evaluation.

"BV class means also in future best possible fore seeing of safe return to port remembering the lesson of history. Fore seeing of the accident possibility is the key word of safety", Mr. Kaljala focuses. ■

*More information: [www.bureauveritas.com](http://www.bureauveritas.com)*

RISTO VALKEPÄÄ



## ENSTO's new approach to LED engine design



**ENSTO has recently launched on the market of TBD lighting fixture its new EN-X16BG MR16 12W led engine.**

**E**N-X16BG MR16 is based on the state of the art COB technology and comes with one of the most advanced secondary optic selection to cover the huge variety of on board functional requirements.

Despite its tiny dimension, EN-X16BG delivers more than 1 000Lm at 3 000K with a CRI >90 (up to 96) with an overall efficacy of more than 83 Lm/W.

ENSTO engineers solved the system-level thermal management challenges by designing an high efficient heat sink that combines thermal surface shaping design, thermal interface material (TIM) selection and appropriate surface treatments to allow a 12W

power dissipation in a only 76 x 45 mm envelope. Thermal management has been the key of ENSTO design to offer its valuable customers a top quality product with very high output flux, negligible color shifting, and poor lumen depreciation.

Again EN-X16BG offers a wide range of secondary optics with a beam spread from 12 to 52 deg. (FWHM) in two different technologies: TIR (total internal reflection) and mirror reflector. Secondary optics can be easily changed inside the EN-X16BG body to quickly accommodate any design change of the last minute.

The last but not the least, thanks to its robust mechanical construction and to its unconventional outlook, EN-X16BG MR16 led engine is going to represent a benchmark as far as working application flexibility concerns. In fact, a wide set of accessories is available to cover different functions:

1. Replacing the existing MR16 halogen lamp for indoor lighting
2. Be used as a wall/ceiling surface mounted indoor lighting fixture
3. Be used as a small outdoor projector with IP54 protection grade (IP version is available as an option)

One supplier and one product for different application represents the ENSTO viable approach to fulfill the new requirements of purchasing and maintenance managers and to support architects and lighting designers with a reliable, flexible, scalable MR16 engine.

ENSTO EN-X16BG gives everybody new fuel for their imagination. ■

More information: [www.ensto.com](http://www.ensto.com)





# company directory



Photo: STX Europe



**ABB OY, MARINE AND CRANES**

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FI-00981 Helsinki  
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Phone +358 10 2211  
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VP Sales  
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**Facts & Figures**

Personnel: 250  
Established: 1889

**Specialty Areas**

ABB Marine and Cranes is the leading manufacturer of electric power, propulsion and vessel control systems. We are a global maritime organisation, providing reliable, safe and environmentally friendly solutions and qualified services to ship owners, operators and yards reducing operational costs and ensuring optimum vessel lifecycle.

**ACM-TRADING LTD**

Ketunleivänkuja 4  
FI-21110 Naantali, Finland  
Phone +358 20 799 1400  
Fax +358 20 799 1409  
firstname.lastname@acm-trading.fi  
www.acm-trading.fi

**Contact Person**

Kari U. Laiho

**Specialty Areas**

Complete PUSHPIN®-ATB-Coupler System for Pusher Tug and Barge combinations. Available models 2 or 3 pin executions, with electro-pneumatic or electro-hydraulic controls with modern PLC controls. New Model! PUSHPIN®-SliderRig – Coupler enabling to be engaged during loading and discharging. Pin forces from 150 Tons up to 3 000 Tons, from River ATBs to Large Offshore ATBs, 11 systems in service. Concept design, Feasibility Studies and total installation engineering and supervision including class approvals with FEM-analysis. Electro-Hydraulic EHS Actuators for valve control and remote sounding systems with total BUSLoop systems for all kind of vessels. Cooling control systems for HT-, LT-, LO-, SW- etc. cooling circuits. Marine Pumps, Marine Butterfly valves in house already over 40 years experience.

**AGCO POWER**

FI-37240 Linnavuori, Finland  
Phone +358 20 786 3600  
info.agcopower@AGCOcorp.com  
www.agcopower.com

**Contact Person**

Kari Mettälä, kari.mettala@agcocorp.com

**Facts & Figures**

Parent Company: AGCO Corp

**Subsidiaries & Representatives**

Idäntie Ky, Finland; Nordhavn A/S, Denmark, Greenland; Sandfirden, Holland; Jackfame, Taiwan; Cimpomovel, Portugal; Flydenbø Power, Norway; Motorimport, Sweden; Baltic Marine, Estonia, Latvia, Lithuania; ScanDiesel, Germany; Werkhuizen Frans Stevens, Belgium; Moteurs Baudouin S.A., France; J.Netas & Sons S.A., Greece; Nuova Motonautica, Italy; Scania Cimpomóvel, Portugal; Kronstadt Ltd, Russia; Guascor S.A., Spain; Scangen, China, Hong Kong, Indonesia, Malaysia, Philippines, Singapore. Sri Lanka; Hattat Otomotiv Pazarlama A.S., Turkey, Grant's Marine Diesel, USA; Eastern States - CANADA; Eastern States

**Specialty Areas**

Diesel engines 74-250 kW for propulsion and generator use. Diesel generating sets for auxiliary and emergency use.

**AKER ARCTIC TECHNOLOGY INC**

# Aker Arctic

Merenkulkijankatu 6  
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Managing Director  
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**Facts & Figures**

Turnover: EUR 7 million  
Established: 2005  
Parent Company: Finnish Industry Investment Ltd

**Specialty Areas**

Aker Arctic is running one of the newest ice model testing facility in the world. The company continues the R&D work of the former Masa-Yards' Arctic Technology Centre MARC in Finland, offering R&D and design services on maritime transport systems, ships, offshore structures and ports, ship and propulsion system design and ice navigation training.

**ANTTI-TEOLLISUUS OY, ANTTI MARINE**

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**Contact Person**

Toni Leino  
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toni.leino@antti-teollisuus.fi

**Subsidiaries & Representatives**

Germany, Benipo Oy

**Specialty Areas**

Cabin, Accommodation & Interior fire doors for marine and off-shore applications  
Antti doors are available in C, B-15 and B-30 class with MED & USCG approvals

**ARCTIA SHIPPING LTD**

Laivastokatu 9  
FI-00160 Espoo, Finland  
Phone +358 30 620 7000  
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info@arctia.fi  
www.arctia.fi

**Contact Person**

Tero Vauraste  
CEO & President  
tero.vauraste@arctia.fi

**Facts & Figures**

Turnover: EUR 63 million  
Personnel: 260  
Established: 2010

**Specialty Areas**

Arctia Shipping carries over 100 years of working expertise in winter navigation and icebreaking. We offer ice-management, icebreaking and offshore services. We also have oil spill response equipment and well trained staff. Our fleet consists of four conventional icebreakers (Otso, Urho, Sisu & Voima), two multipurpose icebreakers (Fennica & Nordica) and one oil recovery icebreaker (Kontio).



**ASLEMETALS OY**

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Phone +358 2 838 011  
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**Contact Person**

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pasi.lehtinen@aslemetals.fi

**Specialty Areas**

Aslemetals Oy is a medium-sized metal industry subcontracting company whose primary products are steel and piping structures for the industry. In addition, Aslemetals manufactures moulds for the needs of the concrete industry. Production is divided into steel and plate structures, pipe and module production and turnkey deliveries.

**AUTROSAFE OY**

Uranuksenkuja 10  
FI-01480 Vantaa  
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www.autrosafe.fi

**Contact Person**

Mikko Haapalainen  
Managing Director  
mikko.haapalainen@autrosafe.fi

**Facts & Figures**

Turnover: EUR 2,3 million  
Personnel: 8  
Established: 1995  
Parent Company: Copertura Oy

**Specialty Areas**

Temperature sensors, pressure transducers. Fire alarm and Engine alarm systems. Wikrolux Led-technic based safety and guiding lights. Electrical sounders and flash alarms. Autrosafe Light Signal Columns.

See page 43 and Back Cover

**BUREAU VERITAS**

Hermannin rantatie 10  
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Phone +358 10 830 8630  
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helsinki@fi.bureauveritas.com  
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**Contact Person**

Olli Kaljala  
Chief Executive  
olli.kaljala@fi.bureauveritas.com

**Facts & Figures**

Personnel: 65  
Established: 1984 (Finland)  
Parent Company: Bureau Veritas SA (est. 1828)

**Specialty Areas**

Survey of ships & ship equipment, classification of newbuildings  
Inspection of industrial products & goods for international trade  
Certification of management systems against international standards

See page 27

**CHAMPION DOOR**

Pajatie 1  
FI-85500 Nivala  
Finland  
Phone +358 8 445 8800  
Fax +358 8 442 956  
info@championdoor.com  
www.championdoor.com

**Contact Person**

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Export Manager  
jp.hakkarainen@championdoor.com

**Facts & Figures**

Turnover: EUR 6 million  
Personnel: 40  
Established: 1992

**Specialty Areas**

Very large fold-up shipyard doors, size of one door can be as large as 28 x 25 metres. Doors can also be manufactured in special frame-widths with no wind or size limitations.

See page 44

**ENSTO ITALIA**

Via F. De Filippi 3  
IT-20129 Milano  
Italy  
Phone +39 02 2940 3084  
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enstoitalia@ensto.com  
www.ensto.com



Saves Your Energy

**Contact Person**

Guglielmo Rutigliano  
Sales Director  
guglielmo.rutigliano@ensto.com

**Facts & Figures**

Turnover: EUR 260 million  
Personnel: 1 600  
Established: 1958  
Parent Company: Ensto Group

**Specialty Areas**

Ensto's marine lighting products are designed for ship installations and can be customised to Customer's needs.

**EVAC OY**

Sinimäentie 14  
FI-02630 Espoo  
Finland  
Phone +358 20 763 0200  
Fax +358 20 763 0222  
firstname.lastname@evac.com  
www.evac.com

**Contact Person**

Mika Karjalainen  
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**Facts & Figures**

Turnover: EUR 65,5 million

**Specialty Areas**

Evac is a global company. Evac designs, manufactures and markets environmentally friendly waste and wastewater collection and treatment systems for the shipbuilding and building industry. Skilled personnel, professional design and high-quality technical solutions have facilitated continuous growth, both in turnover and market share.



**EXIT-PAINIKE KY**

P.O. Box 78  
FI-61801 Kauhajoki  
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Phone +358 6 231 4034  
Fax +358 6 231 4112  
exitpainike@exitpainike.fi  
www.exitpainike.fi

**Contact Person**

Timo Hakala

**Specialty Areas**

EXIT 6000 series emergency doors  
EXIT panic device

**FORESHIP LTD**

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Lauri Haavisto  
Managing Director  
lauri.haavisto@foreship.com

**Specialty Areas**

Foreship's Naval Architects and Marine Engineers are specialised in challenging conversion and newbuilding concept designs. Foreship has also extensive CFD capabilities and state-of-the art hull form references.

**GS-HYDRO OY**

Lautatarhankatu 4  
FI-13110 Hämeenlinna  
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Phone +358 3 656 41  
Fax +358 3 653 2998  
sales@gshydro.fi  
www.gshydro.com

**Contact Person**

Seppo Lusenius

**Facts & Figures**

Turnover: EUR 155 million (2012)  
Personnel: 650+  
Established: 1974

**Subsidiaries & Representatives**

Austria, Brazil, China, Denmark, Finland, France, Germany, Korea, Netherlands, Norway, Poland, Russia, Singapore, Spain, Sweden, UK, USA.

**Specialty Areas**

GS-Hydro is the world's leading supplier of non-welded piping.

**I-VALO LTD**

Tehtaantie 3B, FI-14500 IITTALA, Finland  
Phone +358 10 446 6600  
Fax +358 10 446 6500  
info@i-valo.com  
www.i-valo.com

**Contact Person**

Mr. Mika Leiponen, Marketing & BD Manager  
mika.leiponen@i-valo.com

**Facts & Figures**

Personnel: approx. 60  
Established: 1971  
Parent Company: Fagerhult Group

**Specialty Areas**

I-Valo's luminaires have been planned with particular attention to their suitability for high ambient temperatures, humid and dusty applications, and for premises and environments which have impurities in the air. In addition to traditional industrial environments I-Valo luminaires can also be used in shipyards/harbours and offshore lighting applications. The luminaires are easy to install and maintain, and the need for maintenance is minimal. High energy-efficiency, excellent Light Output Ratio as well as outstanding quality are the main attributes for I-Valo luminaires.

**JOPTEK OY COMPOSITES**

Kerantie 7-9  
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Phone +358 20 743 9150  
Fax +358 13 523 710  
info@joptek.fi  
www.joptek.fi

**Contact Person**

Minna Hämäläinen  
Vice President Sales and Marketing  
minna.hamalainen@joptek.fi

**Facts & Figures**

Turnover: EUR 8 million (2013)  
Personnel: approx. 90  
Established: 1985

**Specialty Areas**

Modular balconies  
Divider walls and handrails  
Toilet and bathroom modules  
Composite floors and walls  
Sandwich structures

**JTK POWER OY**

Teollisuustie 6  
FI-66600 Vöyri, Finland  
Phone +358 20 781 2313  
Fax +358 6 361 0383  
info@jtk-power.fi  
www.jtk-power.fi

**Contact Person**

Timo Viitala  
Managing Director  
timo.viitala@jtk-power.fi

**Facts & Figures**

Turnover: EUR 20 million  
Personnel: 73  
Established: 1998

**Specialty Areas**

Large Diesel and Gas engines exhaust and intake silencers. Offshore-, paper- & pulp and other process industries large silencers. Also Valve seat inserts are manufactured for exhaust and intake valves, of both large and small diesel engines.



**JUKOVA OY**

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www.jukova.fi

**Contact Person**

Stefan Sundblom  
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**Specialty Areas**

Modular balconies  
Sliding doors  
Balcony divider walls  
Glass railings

**KAEFER OY**

Lehtimäentie 17  
FI-21290 Rusko, Finland  
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www.kaefer.fi

**Contact Person**

Janne Sirviö  
janne.sirvio@kaefer.fi

**Facts & Figures**

Turnover: EUR 20 million  
Personnel: 75  
Established: 1977  
Parent Company: KAEFER GmbH

**Subsidiaries & Representatives**

KAEFER GmbH

**Specialty Areas**

Interior solutions for the shipyards and ship owners  
Turnkey services for accommodation and public areas  
All type of insulation services for marine industry

**KEMPPI OY**

Kempinkatu 1, FI-15810 Lahti, Finland  
Phone +358 3 899 11  
Fax +358 3 899 428  
export@kemppi.com  
www.kemppi.com

**Facts & Figures**

Turnover: EUR 120 million (2012)  
Personnel: 630  
Established: 1949

**Subsidiaries & Representatives**

Sales offices: Kemppi Sverige AB, Sweden; Kemppi Norge A/S, Norway; Kemppi Danmark AS, Denmark; Kemppi GmbH, Germany; Kemppi (UK) Ltd., United Kingdom; Kemppi France S.A., France; Kemppi Benelux B.V., Holland; Kemppi Welding Machines Australia Pty Ltd., Australia; Kemppi Spolka z.o.o., Poland; OOO Kemppi, Russia; Kemppi, Trading (Beijing) Company Ltd, China; Kemppi India Private Limited, India; Kemppi Welding Solutions Sdn Bhd, Malaysia.  
Distributors in more than 70 countries.

**Specialty Areas**

Kemppi is a world-leading manufacturer of arc welding equipment and a provider of solutions for highly productive welding.

**KESKIPAKOVALU OY**

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Fax +358 3 364 5964  
info@keskipakovalu.fi  
www.keskipakovalu.fi

**Contact Persons**

Kimmo Markkula  
Keijo Koivisto  
Asmo Rantanen

**Facts & Figures**

Turnover: EUR 5,5 million  
Personnel: 32  
Established: 1956

**Specialty Areas**

Bronze parts of diesel engines  
Bronze parts of propulsion machinery  
Bronze parts of maneuvering machinery

**KOJA MARINE**

P.O. Box 351  
(Lentokentäntäkatu 7)  
FI-33101 Tampere  
Finland  
Phone +358 3 282 5111  
Fax +358 3 282 5404  
marine@koja.fi  
www.koja.fi

**Contact Person**

Esko Nousiainen, Director  
esko.nousiainen@koja.fi

**Facts & Figures**

Turnover: EUR 32,7 million  
Personnel: 182  
Established: 1935  
Parent Company: Kojas Group

**Specialty Areas**

Air conditioning systems, air conditioning units  
System design and material deliveries  
Cargo ventilation systems  
Air Conditioning turn-key deliveries, HVAC electrical / automation systems

**L & P LAAKSONEN & POIKA**

Akselintie 1  
FI-20200 Turku  
Finland  
Phone +358 2 515 4600  
Fax +358 2 469 0861  
contact@lplaaksonen.com  
www.lplaaksonen.com

**Contact Person**

Harri Laaksonen  
Managing Director

**Facts & Figures**

Turnover: EUR 1,2 million  
Personnel: 9  
Established: 1948

**Specialty Areas**

Lighting fitting for marine use  
Decorative lighting fittings



**LAIVAKONE OY**

Uranuksenkuja 1C  
FI-01480 Vantaa  
Finland

Posenerstr. 1a  
D-23554 Lübeck  
Germany

Phone +358 20 763 1570  
Fax +358 20 763 1571  
laivakone@laivakone.fi

**Contact Person**

Harri Elonen

**Facts & Figures**

Personnel: 20  
Established: 1969

**Specialty Areas**

Ship engine repairs & services

**LAUTEX OY AB**

# Lautex

P.O. Box 58  
FI-03101 Nummela, Finland  
Phone +358 9 224 8810  
Fax +358 9 222 5447  
sales@lautex.com  
www.lautex.com

**Contact Persons**

Jussi Pärssinen, Sales Manager, Marine  
+358 400 268 851  
Sami Leinonen, Sales Manager, Marine  
+358 40 842 4020

**Facts & Figures**

Turnover: EUR 8 million  
Personnel: 75  
Established: 1951  
Parent Company: Christian Berner Invest AB

**Specialty Areas**

Ceilings for ship accommodation and public spaces, such as metal panels, profiles, tiles and grating in aluminium or steel.  
Special ceilings, domes and beams etc. Various finishes possible: real wood finish, digital coating etc.

**OY LINDAB AB**

Juvan teollisuuskatu 3, FI-02920 Espoo, Finland  
Phone +358 20 785 1010  
www.lindab.fi

**Contact Person**

Niels Christensen, Business Manager Marine, Lindab Marine,  
+45 23 39 10 01, www.lindabmarine.com

**Facts & Figures**

Turnover: SEK 6 656 million (2012)  
Personnel: 4 300  
Established: 1959  
Parent Company: Lindab Group

**Specialty Areas**

Insulated and non-insulated duct and fittings  
Acoustic solutions  
Bulkhead penetrations  
Dampers and measuring units  
Air terminals  
Fans  
Lindab develop the most innovative and simplified constructions on the market. Our energy efficient solutions will change the way of designing ships and bring the best indoor climate onboard.

**MARINE DIESEL FINLAND OY**

Eteläkaari 10  
FI-22420 Lieto  
Finland  
Phone +358 20 711 8220  
Fax +358 2 253 9121  
marine.diesel@wihuri.fi

**Contact Persons**

Markus Hjerppe  
Mika Aaltonen

**Facts & Figures**

Personnel: 40  
Established: 1992

**Specialty Areas**

Main- and auxiliary engine repair and service  
Total overhaul of all type of engines  
Mechanical engineering  
On-site machining  
Conservation works after engine room fire or flooding  
Well equipped workshop in Turku area and in Helsinki  
CAT dealer, Kemel seals and bearings, Ingersoll Rand service

**OY MATATEC SERVICES AB**

Länsilaituri 1  
FI-20200 Turku  
Finland  
Phone +358 2 250 1852  
Fax +358 2 250 1853  
matatec@netti.fi  
www.matatec.com

**Contact Person**

Magnus Ekman  
magnus.ekman@matatec.fi

**Facts & Figures**

Established: 1983

**Specialty Areas**

Voyage Repairs and Maintenance on board, in ports, alongside yards  
Berth  
Upgrading and retrofits services for OEM partners

**MERIMA OY**

Tatti 10  
FI-00760 Helsinki  
Finland  
Phone +358 9 350 9300  
Fax +358 9 388 2133  
contact@merima.fi  
www.merima.fi

**Contact Person**

Ari Nylund  
Export Manager

**Facts & Figures**

Turnover: EUR 25,5 million (2011)  
Personnel: 60 (2011)  
Established: 1987

**Specialty Areas**

Turn-key public interior outfitting for Cruise Vessels,  
Car-Passenger Ferries and RO-PAX vessels  
Refurbishment for Cruise Vessels, Car-Passenger Ferries and  
RO-PAX vessels  
Loose and fixed furniture deliveries



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**METALLIASENNUS HUUHKA OY**

Korpelantie 229  
FI-21570 Sauvo  
Finland  
Phone +358 2 477 2900  
Fax +358 2 477 2921  
www.huuhkaoy.com

**Contact Person**

Pertti Huuhka  
pertti.huuhka@huuhkaoy.com

**Facts & Figures**

Turnover: EUR 7,3 million  
Personnel: 34  
Established: 1987

**Subsidiaries & Representatives**

Pocadel Oy, Finland

**Specialty Areas**

Interior materials and outfit  
Turnkey deliveries; shopping areas, restaurants, conference areas etc.  
Fire door installations

1 4 7

**NIT NAVAL INTERIOR TEAM**

Hadvalantie 10  
FI-21500 Piikkiö  
Finland  
Phone +358 40 779 8211  
Fax +358 2 477 8210  
www.nit.fi

**Contact Person**

Jari Suominen  
jari.suominen@nit.fi

**Facts & Figures**

Turnover: EUR 15 million  
Personnel: 45  
Established: 2000

**Specialty Areas**

Complete turnkey solutions for public spaces, catering areas and sun decks

3

**OILON OY**

P.O. Box 5  
FI-15801 Lahti  
Finland  
Phone +358 3 857 61  
Fax +358 3 857 6239  
www.oilon.com

**Contact Person**

Jani Kurikka  
jani.kurikka@oilon.com

**Facts & Figures**

Turnover: EUR 70 million  
Personnel: 360  
Established: 1961

**Specialty Areas**

Oil & gas burners for marine applications

4

**ONNINEN OY**

P.O. Box 109  
FI-01301 Vantaa  
Finland  
Phone +358 20 485 5111  
Fax +358 20 485 5500  
www.onninen.fi  
www.onninen.com

**Contact Person**

Martti Lehti  
Area Sales Director  
martti.lehti@onninen.fi

**Facts & Figures**

Personnel: 3 000  
Established: 1913

**Specialty Areas**

Onninen provides comprehensive materials services to contractors, industry, public organisations and technical product retailers. We are a family-owned company and have operated in the industry since 1913. We have 3 000 employees in our Finnish, Swedish, Norwegian, Polish, Russian, Baltic and Kazakhstan operations.

3

**PARKER HANNIFIN MANUFACTURING FINLAND OY**

Salmentie 260  
FI-31700 Urjala As.  
Finland  
Phone +358 20 753 2500  
Fax +358 20 753 2501  
filtration.finland@parker.com  
www.parker.com

**Contact Person**

Jyrki Sandt  
jyrki.sandt@parker.com

**Facts & Figures**

Personnel: 135  
Established: 1964  
Parent Company: Parker Hannifin

**Specialty Areas**

Filtration: Lubrication oil filtration, fuel oil filtration, hydraulic filtration  
Condition Monitoring

7

**PARMARINE OY**

Cabins and bathrooms:  
P.O. Box 95  
FI-30101 Forssa, Finland  
Phone +358 3 777 7400  
sales.marine@parmarine.fi  
www.parmarine.fi

Fire doors:  
P.O. Box 22  
FI-79101 Leppävirta  
Finland  
Phone +358 17 570 211  
sales.master@parmarine.fi

**Contact Person**

Risto Kallio  
risto.kallio@parmarine.fi

**Specialty Areas**

Cabins and bathrooms  
A60 hinged and sliding fire doors  
A 60 SWT and LWT sliding fire doors  
A60 fire walls  
B15 cabin doors

1. Consulting  
2. Equipment  
3. Machinery

4. Materials  
5. Safety  
6. Systems

7. Turnkey Deliveries  
8. Yards  
9. Other



**PAROC OY AB**

P.O. Box 47  
FI-00621 Helsinki, Finland  
Phone +358 46 876 8000  
Fax +358 46 876 8003  
technical.insulation@paroc.com  
www.paroc.com

**Contact Person**

Tommi Siitonen  
tommi.siitonen@paroc.com

**Facts & Figures**

Turnover: EUR 430 million  
Personnel: 2 000  
Established: 1952  
Parent Company: Paroc Group Oy Ab

**Subsidiaries & Representatives**

Paroc operates in 13 European countries. Please visit our website [www.paroc.com](http://www.paroc.com) for more information.

**Specialty Areas**

Stone wool insulation products for fire, heat and sound insulation to shipbuilding and offshore industries

**PATRIA AVIATION ENGINE BUSINESS UNIT**

Linnavuorentie 2  
FI-37240 Linnavuori  
Finland  
Phone +358 40 869 2800  
Fax +358 20 469 2801  
www.patria.fi

**Contact Person**

Seppo Tamminen  
General Manager  
Diesel Engine Business  
seppo.tamminen@patria.fi

**Facts & Figures**

Turnover: EUR 20 million  
Personnel: 165  
Established: 1947  
Parent Company: Patria Oyj

**Specialty Areas**

Maintenance and overhaul of high speed diesel engines and related equipment up to 6 000 kW. Authorised MTU Service dealer. Maintenance and overhaul of industrial and marine gas turbines. Special repairs of parts for diesel engines and gas turbines

**PEDRO OY**

Tehdastie 4-6  
FI-15560 Nastola  
Finland  
Phone +358 3 873 900  
Fax +358 3 873 9010  
www.pedro.fi

**Contact Person**

Juha Lehtonen  
Managing Director  
juha.lehtonen@pedro.fi

**Facts & Figures**

Established: 1988

**Specialty Areas**

PEDRO has expertise for 25 years of furniture to luxury cruisers, hotels and homes.

**POCADEL OY**

Korpelantie 229  
FI-21570 Sauvo  
Finland  
Phone +358 2 477 2950  
Fax +358 2 477 2971  
pocadel@pocadel.fi  
www.pocadel.fi

**Contact Person**

Markku Riekk  
markku.riekki@pocadel.fi

**Facts & Figures**

Personnel: 12  
Established: 1997

**Specialty Areas**

B15 and A60 fire rated glazings: – single doors – double doors – windows and glazed walls – B15 sliding doors

**PORKKA FINLAND OY**

P.O. Box 127  
FI-33101 Tampere  
Finland  
Phone +358 20 555 512  
Fax +358 20 555 5288  
www.porkka.fi

**Contact Person**

Petri Hiilloste  
porkkapanel@huurre.com

**Facts & Figures**

Turnover: EUR 26 million  
Personnel: 170  
Established: 1962  
Parent Company: Huurre Group Oy

**Specialty Areas**

Provision stores  
Walk-in rooms in galleys/pantries  
Insulated doors  
Insulated fire doors, A60, for cold stores

**PROJEKTIA OY**

Tuulissuontie 21  
FI-21420 Lieto  
Finland  
Phone +358 2 477 9200  
Fax +358 2 477 9210  
projektia@projektia.fi  
www.projektia.fi

**Contact Person**

Paavo Mikkola  
paavo.mikkola@projektia.fi

**Specialty Areas**

Turnkey deliveries of provision refrigeration; machinery and coolers  
Pipe installations and automation  
Cooling machinery for technical spaces and air condition  
Water chillers  
Unic service concept developed especially for fast moving transport



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**PROMEKO GROUP OY**

P.O. Box 116 (Mettälänkatu 91)  
FI-38701 Kankaanpää, Finland  
Phone +358 20 759 5300  
Fax +358 20 759 5301  
promeco@promeco.fi  
www.promeco.fi

**Contact Person**

Ville Ritakorpi, Sales Manager  
ville.ritakorpi@promeco.fi

**Facts & Figures**

Turnover: EUR 56 million  
Personnel: 420  
Established: 2008

**Subsidiaries & Representatives**

KMT Group Oy, Finland, Promeco S.A., Poland, JAT-Asennus Oy, Finland, VM-Group Oy, Finland, Promeco Solutions Oy, Finland

**Specialty Areas**

Main switchboards, Motor starters, Cyclo converters, Electricity distribution centers, Data transfer control systems, Propeller control systems, Steering modules, Mech. and electr. engineering, FSW

2

**PRYSMIAN CABLES AND SYSTEMS OY**

P.O. Box 13  
FI-02401 Kirkkonummi  
Finland  
Phone +358 10 775 51  
Fax +358 9 298 2204  
www.prysmian.fi

**Contact Person**

Martin Pekuri  
Sales Manager  
martin.pekuri@prysmian.com

**Facts & Figures**

Established: 2005 (1912)  
Parent Company: Prysmian Cavi e Sistemi PSA

**Specialty Areas**

Marine ship board electrical cables

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**RAUMA INTERIOR OY**

Hallitie 8  
FI-26510 Rauma  
Finland  
Phone +358 2 8387 8200  
info@raumainterior.fi  
www.raumainterior.fi  
www.messin.fi

**Contact Person**

Kari Wendelin  
Managing Director  
kari.wendelin@raumainterior.fi

**Specialty Areas**

Designed fixed and free-standing Furniture in various Materials especially for Passenger & Crew Cabins, but also for Restaurants, Nightclubs, Coffee Shops, Conference Rooms (Wardrobes & Racks, Dressing Tables, Cabinets, Coffee Tables, Desks, TV-stands, Beds in Wood and Metal, Nightstands, Sofas, Resin Coated Dining Tables, Bar desks, Decorative Columns etc.)

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**RENOTECH OY**

Sampsankatu 4 B  
FI-20520 Turku, Finland  
Phone +358 10 830 1600  
Fax +358 2 254 3745  
rt@renotech.fi  
www.renotech.fi

**Contact Person**

Bob Talling, bt@renotech.fi  
+358 50 558 1806

**Facts & Figures**

Turnover: EUR 1 million  
Personnel: 5  
Established: 1994

**Specialty Areas**

MED Certified products, B + D. GRG decorative wall and ceiling elements, mouldings and sculpture work. DGG light-weight gypsum board. Renopur decorative surface finishes, paint effects, marbling, wood graining, gilding, paintings and art work. Stonemix textured mouldings and finishes. Renofix non-combustible glues. Fireshield acoustic and fire proofing. Renolmage silk printing and 3-D release films. Acoustic flooring and floor screeds. B-15 elements and draught stop.

2 4

**REXEL FINLAND OY**

P.O. Box 360  
FI-05801 Hyvinkää  
Finland  
Phone +358 10 509 311  
Fax +358 10 509 3222  
marine.sales(at)rexel.fi  
www.rexel.fi

**Contact Person**

Juhani Lehtinen  
Director  
International projects and Marine  
juhani.lehtinen(at)rexel.fi

**Facts & Figures**

Turnover: EUR 212 million (2012)  
Personnel: 300 (2012)  
Established: 1913  
Parent Company: Rexel Group

**Specialty Areas**

Electrical wholesaling; Electrical items such as electrical installation materials, cables, cable racks, cable penetrations and seals  
Also deliveries of all electrical items for marine business

2

**ROLLS-ROYCE OY AB**

P.O. Box 220  
FI-26101 Rauma  
Finland  
Phone +358 2 837 91  
Fax +358 2 8379 4804  
rolls-royce.finland@rolls-royce.com  
www.rolls-royce.com/marine

**Contact Person**

Liisa Snellman  
Communications  
liisa.snellman@rolls-royce.com

**Facts & Figures**

Turnover: EUR 523 million  
Established: 1988  
Parent Company: Rolls-Royce plc

**Subsidiaries & Representatives**

Rolls-Royce worldwide sales and service network

**Specialty Areas**

Thrusters, propulsion systems, winch systems, stabilizers, steering gears, bearings

1. Consulting  
2. Equipment  
3. Machinery

4. Materials  
5. Safety  
6. Systems

7. Turnkey Deliveries  
8. Yards  
9. Other



## SAINT-GOBAIN RAKENNUSTUOTTEET OY

P.O. Box 250 (Kerkkolankatu 37-39)  
FI-05801 Hyvinkää  
Finland  
Phone +358 20 775 50  
Fax +358 20 775 5321  
firstname.lastname@saint-gobain.com  
www.isover.fi



### Contact Person

Matti Reijonen  
Sales Manager

### Facts & Figures

Turnover: EUR 119 million  
Personnel: approx. 400  
Established: 1941  
Parent Company: Saint-Gobain

### Specialty Areas

Saint-Gobain Rakennustuotteet Oy / ISOVER manufactures and sells mineral insulation products for heat insulation, sound reduction, and fire protection on ships. Additional information regarding the new fire insulations is available at: [www.isover-ultimate.com](http://www.isover-ultimate.com)

## S.A. SVENDSEN OY

Särkiniementie 3 B  
FI-00210 Helsinki  
Finland  
Phone +358 9 681 1170  
Fax +358 9 6811 1768  
www.sasvendsen.com



### Contact Person

Kimmo Räisänen  
Managing Director  
kimmo.raisanen@sasvendsen.com

### Facts & Figures

Turnover: EUR 13,7 million  
Personnel: 6  
Established: 1981

### Specialty Areas

Complete turnkey deliveries for cruise ships and ferries  
Interior materials and custom made interior modules  
Refurbishments and refits for cruise ships and ferries

## SBA INTERIOR LTD

Hällsnäsintie 99  
FI-10360 Mustio  
Finland  
Phone +358 19 327 71  
sales@sba.fi  
www.sba.fi



### Contact Persons

Thomas Pökelmann, Sales Manager  
thomas.pokelmann@sba.fi  
Johan Fagerlund, Technical Director  
johan.fagerlund@sba.fi

### Facts & Figures

Turnover: EUR 11,4 million  
Personnel: 65  
Established: 1985

### Specialty Areas

SBA Interior is specialised in accommodation panelling and different types of beds for marine applications.

Latest development is a 50mm thin A-60 class light weight non-bearing bulkhead panel and a 20mm B-15 class Extension Screen.  
Another branch of SBA is subcontracting for metal industry.

## SEAKING LTD

Valimotie 13bB, FI-00380 Helsinki, Finland  
Phone +358 9 350 8840  
Fax +358 9 3508 8422  
sales@seaking.net



### Contact Person

Pasi Suvanto, VP Sales, pasi.suvanto@seaking.net

### Facts & Figures

Personnel: approx. 350  
Established: 1985  
Parent Company: SeaKing International AG

### Subsidiaries & Representatives

SeaKing France, SeaKing GmbH, SeaKing Italy, SeaKing Poland, SeaKing Inc.

### Specialty Areas

Established in 1985, SeaKing is the Industry's leading provider of functional catering systems to cruise liners and other high-class passenger vessels. SeaKing supports its customers throughout the ship's life cycle with basic design, consulting, equipment deliveries, training, maintenance and upgrading of the catering systems. SeaKing has a large production facility in Poland specialised in stainless steel (including refrigerators, service counters, ventilation hoods and pre-fabricated pantries) and a second production facility in Ft. Lauderdale, aimed at responding to the Industry's growing renovation and repair activities.

## SELKA-LINE OY

Harjuviidantie 3  
FI-15550 Nastola  
Finland  
Phone +358 3 882 610  
Fax +358 3 882 6110  
www.selka.fi



### Contact Person

Ismo Rätty  
Managing Director  
ismo.ratty@selka.fi

### Facts & Figures

Turnover: EUR 3,2 million  
Personnel: 20  
Established: 1985

### Specialty Areas

Selka-Line Oy manufactures high quality furniture for ships and contract use. We produce custom made furniture in various materials and we can offer wide range of standard products for Restaurants, Nightclubs, Coffee Shops, Conference Rooms etc.

## OY SIKKA FINLAND AB

P.O. Box 49  
FI-02921 Espoo  
Finland  
Phone +358 9 511 431  
Fax +358 9 5114 3300  
sika.finland@fi.sika.com  
www.sika.com



**BUILDING TRUST**

### Contact Person

Kai Winqvist  
Industry Manager  
winqvist.kai@fi.sika.com

### Facts & Figures

Turnover: EUR 16 million  
Personnel: 35  
Established: 1985  
Parent Company: Sika AG

### Specialty Areas

Sealing – Bonding – Acoustic Damping – Reinforcing – Protecting



**STEERPROP LTD**

P.O. Box 217  
FI-26101 Rauma  
Finland  
Phone +358 2 8387 7900  
Fax +358 2 8387 7910  
steerprop@steerprop.com  
www.steerprop.com

**Specialty Areas**

Azimuth Propulsors for demanding applications  
Steerprop Ltd. combines the reliability of proven technologies with the efficiency of modern design to produce azimuth propulsors of exceptional quality and excellent reliability.  
Steerprop Azimuth Propulsors can be made up to 20 MW in power or even in the most stringent ice-classes.

**STX FINLAND OY**

P.O. Box 666  
(Telakkakatu 1)  
FI-20101 Turku  
Finland  
Phone +358 10 6700  
Fax +358 10 670 6700  
finland@stxeurope.com  
www.stxfinland.com

**Contact Person**

Tanja Sabell  
Communication Manager  
tanja.sabell@stxeurope.com

**Specialty Areas**

STX Finland Oy's history in shipbuilding goes back almost 300 years. STX Finland is an experienced builder of technologically demanding projects and it is known for innovative and ecologically friendly solutions. Innovations like the first all-outside-cabin cruise ships, prefabricated cabins and bathroom modules, and the indoor promenade originate from STX Finland. The company's product range includes cruise ships, passenger ferries, arctic and other specialised vessels.

**TEKNIKUM OY**

P.O. Box 13  
FI-38211 Sastamala  
Finland  
Phone +358 3 519 11  
Fax +358 3 514 3137  
marketing@teknikum.com  
www.teknikum.com

**Contact Person**

Mikko Esko  
+358 50 524 3480

**Facts & Figures**

Turnover: EUR 50 million  
Personnel: 400  
Established: 1989  
Parent Company: Teknikum Group Ltd.

**Specialty Areas**

Rubber lining for steel pipes against seawater corrosion  
Rubber hoses, bellows and connection hoses for shipbuilding and offshore industry.  
Moreover we offer customised rubber products for different industry sectors.

**TELATEK OY**

Posiontie 30  
FI-93400 Taivalkoski  
Finland  
Phone +358 8 829 7700  
telatekoy@telatek.fi  
www.telatek.fi

**Contact Person**

Sami Siurua  
VP Sales&marketing

**Facts & Figures**

Personnel: approx. 100  
Established: 1977  
Parent Company: Atlantia Oy

**Subsidiaries & Representatives**

Telatek Service Oy, Telatek Quality Oy, Agencies in Sweden, Russia, Greek and Spain

**Specialty Areas**

Manufacturing heavy and demanding welded/machined structures/ components up to 120 tons. On-site thermal coating, NDT-inspection and machining services by mobile machinery/equipment.

**TEVO OY**

Hiihentie 17  
FI-92160 Saloinen  
Finland  
Phone +358 8 265 8800  
Fax +358 8 265 8805  
tevo@tevo.fi  
www.tevo.fi

**Contact Person**

Marjatta Risunen  
Export Assistant  
marjatta.risunen@tevo.fi

**Facts & Figures**

Turnover: EUR 21 million  
Personnel: 120  
Established: 1974

**Specialty Areas**

Manufacture and service of Bronze Marine Propellers up to 10 m diameter  
Offshore steel constructions and special welding  
Heavy steel machine building  
Manufacture of TEVO Spreader rolls and overhaul

**OY VALLILA CONTRACT AB**

Vallila Interior

Nilsjankatu 15  
FI-00510 Helsinki  
Finland  
Phone +358 20 776 7700  
Fax +358 20 776 7701  
projekti@vallilainterior.fi  
www.vallilainterior.fi

**Contact Person**

Miku Berner  
miku.berner@vallilainterior.fi

**Facts & Figures**

Turnover: EUR 37 million  
Personnel: 135  
Established: 1935

**Specialty Areas**

Textile design  
Textile full turnkey solutions, measuring, sewing, installation  
All system solutions, electrical and manual  
Large collections on Imo certified fabrics



## VTT TECHNICAL RESEARCH CENTRE OF FINLAND

P.O. Box 1 000  
FI-02044 VTT  
Finland  
Phone +358 20 722 4294  
Fax +358 20 722 4815  
www.vtt.fi



### Contact Person

Seppo Kivimaa  
seppo.kivimaa@vtt.fi

### Facts & Figures

Turnover: EUR 316 million  
Personnel: 2 900  
Established: 1942

### Specialty Areas

R&D services. In vehicle engineering VTT offers expertise in model and full-scale tests, computational fluid dynamics, structural monitoring, structural integrity and dynamics, maritime simulations and virtual prototyping, maritime safety and environmental engineering, small craft design analysis, hydraulics.

## WATMAN ENGINEERING LTD OY

Laatukatu 16  
FI-15680 Lahti  
Finland  
Phone +358 20 741 7255  
Fax +358 3 752 2750  
engineering@watman.fi  
www.watman.fi



### Facts & Figures

Turnover: EUR 2-3 million  
Personnel: 10  
Established: 1995  
Parent Company: Pumppulohja Oy

### Specialty Areas

Water treatment, desalination, RO-units, waste water treatment  
Pressure vessels and storage tanks, tube heat exchangers, pumps, water management

## WENDA OY

Tuulissuonkuja 1  
FI-21420 Lieto, Finland  
Phone +358 2 487 0258  
Fax +358 2 487 0268  
sales@wenda.fi  
www.wenda.fi  
www.icestop.fi



### Contact Person

Jan Forsbom  
Managing Director  
jan.forsbom@wenda.fi

### Facts & Figures

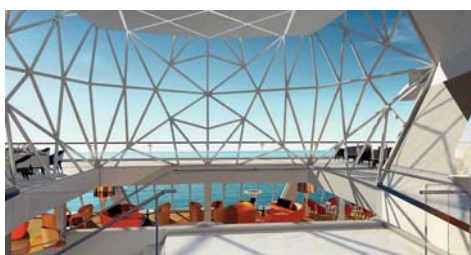
Established: 1995

### Specialty Areas

Wenda Ltd. specialises in composite technology. The Company designs and manufactures lightweight structures and products for ships according to customer specifications. The latest additions to Wenda shipboard products include a new type of deck seat, a new deck light fixture, a brand new life jacket container product line and IceStop ice prevention system. IceStop is a unique system to keep decks unfrozen on arctic ships.

## NOTES





# STX FINLAND

## Record-Breaking Innovativeness in Shipbuilding

Mein Schiff 3 and Mein Schiff 4 are sophisticated and highly innovative GT 99.000 cruise ships. These environmentally friendly newbuildings for TUI Cruises are currently under construction at STX Finland Turku Shipyard. The building periods of these two ships are record-breaking tight. New building practises with high block outfitting ratio and modularisation have been successfully utilised more than ever.

[www.stxfinland.com](http://www.stxfinland.com)





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