



CRUISE SHIPS BUILT IN FINLAND SINCE 1999

1999 Voyager of the Seas for Royal Caribbean International, Turku 1999 Europa for Hapag-Lloyd, Helsinki 2000 Explorer of the Seas for Royal Caribbean International, Turku 2000 Costa Atlantica for Costa Crociere, Helsinki 2001 Adventure of the Seas for Royal Caribbean International, Turku 2001 Carnival Spirit for Carnival Cruise Line, Helsinki 2002 Navigator of the Seas for Royal Caribbean International, Turku 2002 Carnival Pride for Carnival Cruise Line, Helsinki 2002 Carnival Legend for Carnival Cruise Line, Helsinki 2003 Mariner of the Seas for Royal Caribbean International, Turku 2003 Costa Mediterranean for Costa Crociere, Helsinki 2004 Carnival Miracle for Carnival Cruise Line. Helsinki 2004 Birka Paradise for Birka Line, Rauma 2006 Freedom of the Seas for Royal Caribbean International, Turku 2007 Liberty of the Seas for Royal Caribbean International, Turku 2008 Independence of the Seas for Royal Caribbean International, Turku 2009 Oasis of the Seas for Royal Caribbean International, Turku 2010 Allure of the Seas for Royal Caribbean International, Turku 2014 Mein Schiff 3 for TUI Cruises. Turku 2015 Mein Schiff 4 for TUI Cruises, Turku 2016 Mein Schiff 5 for TUI Cruises, Turku 2017 Mein Schiff 6 for TUI Cruises, Turku 2018 New Mein Schiff 1 for TUI Cruises, Turku 2019 New Mein Schiff 2 for TUI Cruises, Turku 2019 Costa Smeralda for Costa Crociere. Turku

Finnish Marine Industries coordinates the cooperation in industrial and economic policy among the companies at the branch. Members include leading marine equipment manufacturers, turnkey suppliers, design offices, software and system providers as well as shipbuilding, ship repair and offshore yards. The association represents its members in the European Ships and Maritime Equipment Association (SEA Europe).

marineindustries.fi



Meriteollisuus Finnish Marine Industries

Luxury Cruise Ships from Finland

CRUISE SHIPS – FINNISH MASTERPIECES

Finnish shipyards have built dozens of cruise ships and passenger ferries in cooperation with the Finnish maritime network. Finnish experts have designed and constructed some of the world's largest cruise vessels, for instance Oasis of the Seas and Allure of the Seas, each with a capacity for more than 6,000 passengers and 2,000 crew.

One of the Finnish masterpieces is Costa Smeralda, a 180,000 gross tonnage beauty built by Meyer Turku. Costa Smeralda is one of the first cruise ships running on LNG (liquefied natural gas). The ship also incorporates a series of cutting-edge technological innovations designed to further reduce environmental impact. Energy consumption has been reduced to a minimum by using LED lights, recovering the heat generated by the engines and by introducing new generation elevators that recover energy by re-producing it into the electricity system.

Each new Finnish cruise ship marks a significant improvement in energy efficiency: for instance. New Mein Schiff 1 and 2 were engineered 10% more energy efficient compared to their predecessor. They are one of the first cruise ships to be equipped with catalytic converters for the main and auxiliary engines, reducing nitrogen oxide emissions. Also the cruise ships' passenger spaces have a number of new iconic features like the new diamond, which now spans almost a 50m breath of the ship, the new Lagune sun deck area, the new covered sports Arena, and the new elevated jogging track with a spectacular view. All the ships in TUI's Mein Schiff series have been built in Finland.

Helsinki Shipyard is currently working on two luxury expedition

vessels for Swan Hellenic's use. The vessels are intended to operate both in the Arctic and Antarctic waters as well as in the tropical waters. These vessels will measure 113m in length and have a capacity for 157 passengers.

Cruise Ferries

Sophisticated cruise ferries are also part of the Finnish network's expertise. Rauma Marine Constructions' newbuilding, Aurora Botnia, for Wasaline will be the first ever RoPax ferry with a Clean Design class notation. The vessel can utilize LNG or biogas in addition to diesel fuel in power generation and will feature a battery system and electrical azimuthing propulsion rarely seen in car and passenger ferries.

RMC's third newbuilding, Tallink's new shuttle ferry, MyStar, will be approximately 212m long and have a gross tonnage of approximately 50,000. It will be able to accommodate 2,800 passengers. The vessel will utilise the newest technology and innovative solutions, with the aim of building the most environmentally friendly and energy-efficient vessel possible. This includes machines that will run on dual-fuel and an option for a battery solution, with the main source of fuel being lowemission liquefied natural gas (LNG).

FINNISH MARINE INDUSTRIES' MEMBER

Bertel O. Steen Power

Solutions Finland

Lamor Corporation

MAN Energy Solutions

Kongsberg Maritime Finland

The Switch Engineering

ENGINEERING AND

Allstars Engineering

TECHNICAL CONSULTING

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Marioff Corporation

PROTECTION

SHIPYARDS

Meyer Turku

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Steerprop

Valmet

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Aker Arctic

Deltamarin

Flomatic

Etteplan

Foreship

lalmare

Koja

Kemppi

Saajos

Pemamek

Beacon Finland

Bluetech Finland

TEVO Lokomo

COMPANIES CABINS, BATHROOMS AND

RELATED EQUIPMENT Antti-Teollisuus Jukova Corporation Parmarine Piikkio Works

CATERING EQUIPMENT Kavika

Metos SeaKing

COMPONENTS AND MATERIALS

ISOVER Saint-Gobain Finland Lautex Mesekon nora flooring systems Paroc SBA Interior SSAB Europe

CONSULTING Emmanoa Stellio

ELECTRICAL SYSTEMS AND COMPONENTS

AQ Trafotek Atevor Elcoline Group Helkama Bica Laivasähkötyö Promeco Group Pinia Industry Solutions

ELEVATORS AND ACCESS SYSTEMS

KONE

ENERGY, ENVIRONMENT AND PROPULSION SYSTEMS ABB

Adwatec Alfa Laval Aalborg



COSTA SMERALDA Contract signed: June 2015

Delivered: 5.12.2019 Length: 337 m Width: 42 m Gross Tonnage: 183,900

Number of Passengers: approx. 6,554 Number of cabins: 2,610 Crew: 1,646 Flag: Italy

Turku Repair Yard Uki Workboat SOFTWARE & ICT Cadmatic	Finnish Marii the Finnish S
IBM Finland NAPA VTT SenseWay	<u>.</u>
SURFACE TREATMENT FSP Finnish Steel Painting	
TURNKEY PROJECTS ALMACO Group E.UAdhoc Project I.S. Mäkinen Kaefer	*** ********
Merima Metalliasennus Huuhka Mobimar NIT Naval Interior Team Orsap RR Site Service R&M Ship Technologies Finland	
S.A. Svendsen Shipbuilding Completion Vallila Marine	
OTHER MEMBERS OF FINNISH MARINE INDUSTRIES Kvaerner Finland Machine Technology Center Turku Prizztech	Source: Brahea Centre at
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ine Industry in Society Finnish marine industry employs 31 000 people Annual turnover 9 billion € 7 1 100 companies in the industry t the University of Turku stry consists of: equipment manufacturers ey suppliers offices System suppliers 高高高 Software providers Shipbuilding, ship repair and offshore yards

