



Always ahead of the game

LAUNCHED IN 2012, FENDER INNOVATIONS HAS ACQUIRED AN EXCELLENT REPUTATION FOR THE DEVELOPMENT AND PRODUCTION OF HIGH-QUALITY, SUPER-STRONG, AND LIGHTWEIGHT FENDER SYSTEMS for all types of vessels throughout the world. Their fender systems stand out because they are manufactured with a core of PE foam with many different densities and a wide variety of damping capacities, leading to significant operational cost savings.

ALL PHOTOS COURTESY OF FENDER INNOVATIONS.

In terms of production, Fender Innovations has two large 5-axis CNC milling machines which ensure that their end product is produced with extreme accuracy. With these machines, the company manufactures fenders up to a maximum length of 18.5m, in one single section. The fender systems can be built in one piece in endless length by invisible connection of the sections due to a unique coating system. The foam that is used is encased with a specially developed high-tech fabric as reinforcement and a special topcoat with a variety of different hardnesses. The fenders are manufactured seamlessly, always custom made, sea-water resistant, extremely light and strong, sustainable, and suitable for ambient temperatures between minus 30°C up to 55°C.



Launched in 2012, Fender Innovations has acquired an excellent reputation for the development and production of high-quality fender systems for all types of vessels throughout the world.



Owner and Founder of Fender Innovations Koos van Bijsterveld is the driving force behind Fender Innovations.



Sylvia Ruizendaal, Chief Operational Officer of Fender Innovations.

Most crucial properties

Chief Operational Officer of Fender Innovations Sylvia Ruizendaal explains, “The two most crucial properties of the company’s products – namely strength and low weight – are relevant to future markets. Weight reduction is an extremely critical issue in electrically-propelled vessels; every kilo of weight equals more kilowatts required to propel the vessel. Our fenders contribute to significant weight savings. Lightweight properties are very important, but the fenders also have to be incredibly strong because they undergo enormous pressures during launching and landing.”

Fine-tuning

Ms Ruizendaal continues, “The fine-tuning of a fender for a specific client’s market needs makes all the difference. All our clients have different requirements. A fender for the offshore wind market has to perform a totally different role than a fender on a superyacht tender. To optimise the selection of the most suitable fender, Fender Innovations gathers a considerable amount of information about the vessel; details about the weight, propulsion, and use of the ship, for example. This gives us an indication about the forces that the fender is expected to experience in day-to-day operations. With all this information, we engineer the fender. And, of course, aesthetics is always important. You can compare the smooth finish and design of our fenders to the shiny rims on a brand new car; it is the icing on the cake.”

Impressive skill set

Fender Innovations manufactures fenders for both new and existing vessels and their fender systems are already used in more than 38 different countries. Fender Innovations is active in an equally diverse >>



Sleek and robust fender system provided by Fender Innovations on the Seagull unmanned surface vessel.



Inspection vessel PW10.

range of maritime sectors. This includes everything from search-and-rescue vessels and workboats such as pilot and patrol vessels, to cruise ship tenders and crew transfer vessels for the offshore wind industry. In addition, the company offers fender installation and performs maintenance and repair work on request, through their efficient service department that operates throughout the world.

Inspection vessel PW10

In the spring of 2020, Talsma Shipyards was assigned with the task to build a new inspection vessel after a design by Vripack. Due to electric propulsion and a large battery pack, PW10 is carbon neutral. In addition, the vessel is fitted out with ten solar panels. The vessel is fully electric and sustainable, which brings several benefits, like 18,427kg fewer CO₂ emissions annually, 6,980L of annual fuel savings, 70 percent savings on maintenance costs, and being 85% recyclable. Fender Innovations provided an extremely lightweight fender system for PW10, with a strong damping capacity, perfect wear and tear, and bold lines over the entire hull providing a robust look. The vessel was proudly delivered at the end of August 2021.

Successful collaboration

The Fender Innovations team concludes, "We are proud of the beautiful end result of

our high-tech fenders on the sleek lines of the PW10 and the collaboration with Talsma went magnificently, thanks to the professional and accurate work ethics of Talsma Shipyards. Tjitze Stiensma, Commercial Project Manager of Talsma Shipyards, comments, "Working with Fender Innovations was a joy because they are professionals with a dimensionally stable approach, and they work with great accuracy. The range of fenders to choose from was very wide. Applying the fender system to the new sustainable paint technology was the biggest challenge during the process, and Fender Innovations successfully completed this challenge. We are mostly proud of the fact that we successfully delivered the project together within the estimated time frame and budget." Working with Talsma Shipyards was a fruitful and joyous event for Fender innovations and they look forward to more successful collaborations together.

Future plans

Koos van Bijsterveld, Owner and Founder of Fender Innovations, is the driving force behind Fender Innovations. His goal is to find a solution for every challenge with regard to fenders that he comes across, and coming up with new solutions even before the challenge arises. Mr van Bijsterveld shares, "To innovate is in our DNA and our number one goal is quality. We want to



Thanks to electric propulsion and a large battery pack, PW10 is carbon neutral.

produce fenders that are ahead of their time, always aiming for even lighter, more flexible, stronger, and more sustainable products, with a focus on customer needs. In addition, our goal is to become completely circular, meaning that we aim to recycle all the products we use. We have started with these processes by converting the foam that we use to a product that can be used for subfloors for sports fields, and the wood we use is reused to make new moulds. The next step is to convert the expanded polystyrene (EPS) we use into a new material that can be used for other applications." In addition to this, in January of 2021, Fender Innovations welcomed Roemer Boogaard as CEO of Fender Innovations. The company is happy to take on the future with Mr Boogaard. All in all, the future of Fender Innovations is looking bright, and very green.

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