



Sustainable
innovations
for shipbuilding
& industry



STC  **TRADE**

About STC Trade

STC Trade is a Dutch-based company focused on sustainable innovations for shipbuilding and the marine industry that has created an environmentally friendly alternative to common metal seawater filters.

Our solution is high-density polyethylene (HDPE) filters and fibreglass-reinforced plastic castings. The high-density polyethylene HDPE filters created by STC Trade are moulded from a naturally tough and resistant material that can withstand corrosion caused by seawater and external influences. This means that their lifespan is unlimited, and, as a result, the cost of ownership is much lower. The filters have been developed under the name STC Perfoplast™.

The STC Perfoplast™ filters were successfully introduced to the Dutch superyacht industry in 2009, and since then, we have been the preferred supplier of many leading Dutch superyacht builders. Over 1000 filters, including the new plastic filters for bilge water, are onboard various superyachts around the world.

In 2015, we introduced our products to the commercial shipping sector, furthering our bid to preserve the environment. IHC and Damen shipyards have been applying filters from STC Trade in their inlet strainers, as do a large number of Dutch yacht builders! We deliver custom-made filters worldwide. Thanks to our product development, we can offer highly improved solutions within your market.

Although plastic is a main focus of the business, STC Trade designs and delivers special tools for the world of plastic pipe installation as well. These unique tools are only available from our company.



STC Trade is a member of The Netherlands Maritime Technology (NMT) trade association, the first port of call for and primary representative of the Dutch maritime technology sector.



Meet our founder: Hans Greve

After successfully completing his studies in Mechanical Engineering and Business Administration, the founder of STC Trade started working for Fokker Aircraft, where he focused on the engineering and production of plastic parts for airplanes. After 16 years in various management functions, he left Fokker to continue his career at a number of commercial companies. In 2009, Hans Greve took the managing position at a plastic pipe installation company, where he developed the first plastic strainers made of GRE and PP. In 2015, he started STC Trade B.V., specialising in plastic filters and strainers. In 2019, he reached the incredible number of 1000 distinct filters designed for and delivered to a wide range of clients.



Mission statement

It is our mission to develop, manufacture and deliver innovative and sustainable (sea)water filtration solutions for maritime and land-based industries. We maintain an agile organisation to fully utilise our leading technical expertise and product development capabilities. We keep a strong focus on our customers through direct channels and cooperation with long-term partners, providing innovative solutions to their challenges with a lower cost of ownership and minimal environmental impact.

STC Perfoplast™ filters

STC Perfoplast™ filters are a durable, non-corrosive, high-performance alternative for common metal filters. STC Perfoplast™ filters are made of HDPE (High-Density Polyethylene), a strong, light and durable material with excellent seawater resistance. Our filters are an environmentally friendly solution that also reduce the cost of ownership.

STC Trade designs and manufactures custom-made filters, available for both seawater and bilge water. STC Perfoplast™ filters have the following benefits:

- Perfect corrosion-resistance and strong material results in an (almost) unlimited lifespan.
- Smooth, fouling-resistant surface ensures less fouling, easy cleaning and better water flow properties.
- Up to 70% weight reduction, resulting in a lightweight filter and uncomplicated maintenance.
- Allowed under IMO Regulations.
- Sustainable product, 100% recyclable.
- Custom-made design and engineering available.

The smallest diameter possible for great permeability results is 2 mm. Many engine OEMs request 2 mm, so this perforation is ideally suited for seawater inlet strainers. The perforation sizes can vary from 2 to 8 mm. Combined with a small or larger pitch, they form the permeability.



- *Perfect perforation*
- *Perfect corrosion-resistant*
- *Perfect lightweight*
- *Perfect recyclable*



STC Fiberstrain™ strainers

STC Trade has developed special inlet strainers, available for both fresh and seawater. STC Fiberstrain™ strainers are available in HDPE and GRE and offer a corrosion-free solution while saving significant weight. Our durable strainers offer an excellent cost value. The GRE versions are L3-certified for use in the engine room. Available in standard range DN 40 – DN 1000 or custom design according to client's specification.



Benefits

- Class approval
- Light weight
- Heavy construction
- No corrosion and high durability
- Less scaling
- Less maintenance
- Different types available
- Standard size range or tailor-made
- Low cost of ownership

*“The filters are installed and look very good. Once again the filters are **a work of art** and I am sure will give many years of service with this new design.”*

D. Cullingworth – Chief Engineer MY Tango Yachts



Heating blankets

STC Trade's heating blankets are used to harden GRE adhesive joints for pipes and fittings. Our heating blankets have been re-engineered based on years of experience, making them more reliable, durable and easy to work with. Custom-made and standard sizes available.

Compared to standard heating blankets, our product is equipped with:

- Strain relief to prevent cable failure.
- Cold tab and flap to prevent burning fingers.
- Velcro for easy installation.
- Eye hook for easy storage.
- Your company's logo on the blankets.

Our heating blankets can be connected to each other without overlap and are suitable for very large pipes.

We offer two models:

- Heating blankets with a built-in controller.
The temperature is set at a fixed value and measured by means of a thermocouple.
- Heating blankets with an external controller.
The temperature is measured with a built-in thermocouple. The temperature can be set and regulated with a separate controller.

Our heating blankets can be connected to each other without overlap.

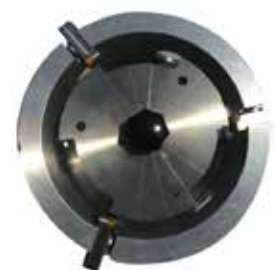


Heat tracing

Heat tracing, wrapped around a pipe, makes it possible to warm the substance in the pipe until it's liquid enough to run through the pipes again. Heat tracing will start up production without problems like clogged pipes or pumps.

Heat tracing is also commonly used to prevent frozen pipes in winter. STC Trade calculate the needed material for warming up your piping.

Shavers



A new type of lightweight and compact shaver for glass fibre-reinforced pipes has been brought to market. Reduce time and costs while delivering perfect results.

A unique Dutch invention

Within 60 seconds, the shaver is set to the correct tube size by a smart calibre. In 20 seconds, a tube is shaved and ready for bonding. No other machine is able to beat that. The shaver tools are made of stainless steel and have a long service life, even when used intensively. Suitable for both metric and imperial sizes. All shaver types are delivered in a presentable firm chest, protecting them under any operating and storage conditions.

For the best results and highest quality, use our shavers for the outside of the pipe and the grinders for the inner part of the pipe to prepare fittings and joints.



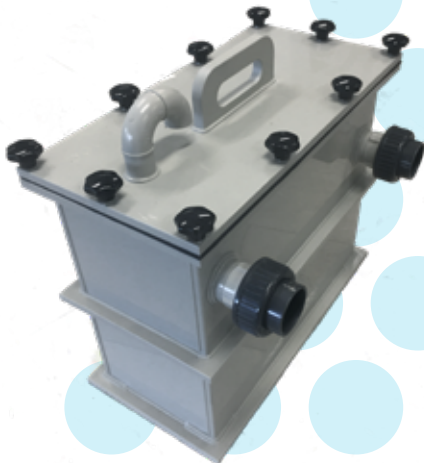
Piping & flanges

STC Trade provides piping, fittings and flanges in glass-reinforced thermoset GRE/GRVE and thermoplastic HDPE, PVC or others. We are experienced in measuring and calculating pipes in ships and industry. We deliver special (stainless) steel flanges to oil jigs for fire extinguisher purposes.

Plastic products

STC Trade offers more sustainable solutions for shipbuilding and industry:

- Sea chest grids to prevent heavy pollution from entering the ship's piping.
- Grease separator used in the kitchen in combination with dishwashing and other washing facilities.
- Jacuzzi tanks as reservoir for the jacuzzi pool and the circulating filtering system.
- Drinking water, grey water and black water tanks.





Superyacht industry

the Dutch superyacht industry is the cradle of STC Trade. Supplying innovative solutions to new-build yachts over 24 metres in the Netherlands has put STC Trade on the map. Nowadays, STC Trade supplies superyacht builders across Europe and superyachts around the world. STC solutions are supplied throughout the lifecycle of the superyacht; for new-construction, on-board maintenance and refit is provided.



Marine

STC Trade supplies all types of merchant ships, passenger vessels and cruise vessels throughout their lifecycles and through a variety of channels.

- New construction.
- OBM (on-board maintenance).
- Refit.



Offshore oil & gas

STC Trade offers innovative seawater filtration solutions for semi-subs, jack-up rigs, FPSOs and FLNG.

- Offshore new construction.
- Offshore OBM & refit (on-board maintenance).



Industrial

All industries using river and salt water to cool their installations: STC Trade helps to prevent corrosion with plastic pipes and filters that will save money and reduce maintenance.

STC Trade is actively growing in the industrial segments, providing various solutions in the Petro-chemical, water and waste-water segments.

Cooperation

The best collaborations create something bigger than the sum of their parts. STC Trade values long-term partnerships in various forms. We collaborate firstly with clients and, of course, with OEMs, distributors and agents to contribute to a more sustainable world.

Our innovative facilities

Twenty FTE work in our 5,000 sqm factory. The factory is equipped with 4 CNC-milling machines, 2 CNC-drilling machines and a CNC-sawing machine. Further equipment includes 2 large automated welding machines, several smaller welding machines and handheld heating tools. Our production process is highly digitalised, and all drawings are designed in 3D Fusion that feed data directly into the CNC machines. Our factory is purpose-designed to manufacture plastic products at the highest quality.



Future vision

Sustainability is important to STC Trade, and we are on a cradle-to-cradle mission. Our precious world needs sustainable, durable and recyclable products as soon as possible. Leaving as small as possible a footprint is essential for our environment.

With 80,000 vessels sailing our oceans, STC Trade will pursue its mission to make a positive impact and offer non-corrosive products, extending product lifetime, reducing corrosion and pollution and supplying 100% recyclable products.

We see a lot of opportunity to fight corrosion and subsequent environmental impact in the shipping-, chemical- and water purification industries. Where corrosion occurs, there is a plastic solution with a smaller footprint and better cost of ownership. We will contribute!

Innovation & developments

Innovation is at the heart of STC Trade. We will always strive to improve products and make them more sustainable and easier to use than existing solutions. Innovation that adds value will remain one of the key values of STC Trade in any product development – now and in the future.

STC Trade continuously works on new product development, either stand-alone or as a joint effort with our clients.

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More about **STC Perfoplast™**

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