Stromme

- a part of SevenSeas

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Why Stromme?

Your preferred partner for an ecological fair and powerful cleaning operatons

- Stromme was the first companies to provide dedicated equipment and chemicals for cargo hold cleaning of dry bulk vessels.
- Stromme is a brand of Seven Seas, with 16 employees operating 24/7 with dedicated people in Norway, Germany, Singapore and USA.
- Efficient and high quality products designed for a long life at sea, will work for heavy duty operations over a long period with low spareparts consumption.
- Efficient and cological fair chemicals using renewable raw materials.
- Consentraded chemicals to be diluted 1:3 with water, using concentrates, less plastic and less transportation.
- Worldwide supply network.
- Fit to customer demands.

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Stromme

- Cargo hold cleaning equipment

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Application of Chemicals

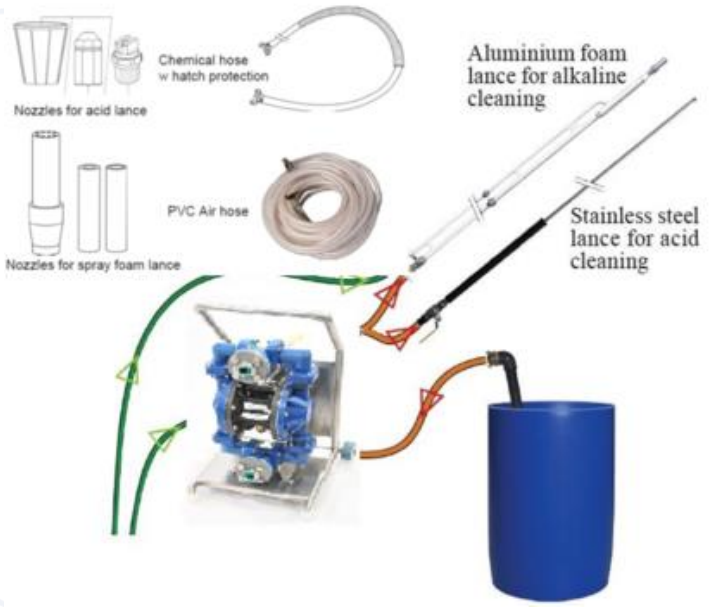
Stromme Pump Spray Foam System – Best Seller with 2 lances

- **Stromme Pump Spray Foam System** is used when applying Stromme Aquaclean, Stromme Holdcoat FC and Stromme Cement Remover.

- The air-driven application system can be used either with the stainless steel lance/nozzles for cleaning with chemicals with acids, or with the aluminium spray foam lance for alkaline cleaners.

- It is a compact, versatile, effective and easy to assemble cargo hold cleaning system.

- The storing box and the pump mounted on the trolley will make the equipment lasting for a long time.



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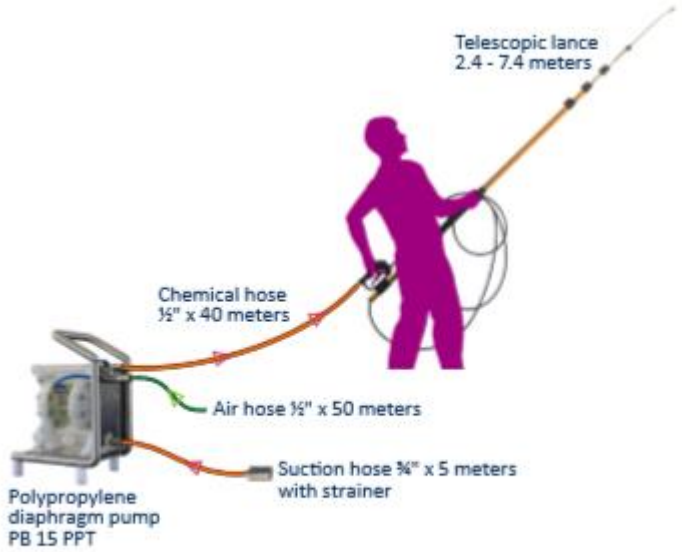
Application of Chemicals

Stromme Midi Spray System

- Mainly designed for one time use cleaning but can be used several times.
- Effective and easy to use application set for applying Stromme Aquaclan, Stromme Holdcoat and Stromme Cement & Rust Remover.
- Includes all necessary equipment to complete a quick chemical application.
- Easy to operate and maintain.
- Can reach up to 10-12 mtrs height.



Stromme Midi Spray System complete
Product No. 3201-27000

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Removing Chemicals / Flushing

Stromme Combi-Jet

- Highly effective, reliable and unique in its simplicity.
- The Stromme Combi-Jet clean cargo holds efficiently, saving time for the crew.
- Sufficient for vessels with air supply of min 2,5m3/min at 7 bar.

Part No.	Description	Qty.
3201-20100	Stromme Combi-Jet with air valve and couplings.	1
3201-50150	Stromme Tripod.	1
3201-20200	Hatch protection, 2" with couplings.	1
3201-20250	Water hose, 2" x 15 meters with STORZ C coupling on one end, one end open.	1
3201-20300	Water hose, 2" x 30 meters with STORZ C coupling on both ends.	1
3201-20350	Air hose PVC, ¾" x 50 meters with claw coupling on one end, one end open.	1

The above kit does not include couplings to connect the system to the ship's deck water and air line. If couplings are required, please advise us the type or IMPA number used on board the vessel.

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Removing Chemicals / Flushing

Stromme Maxi-Jet

- The Stromme Maxi-Jet use accurate venturi system and is designed to give the highest and strongest water jet possible.
- Even rust scales are loosened and flushed away when Stromme Maxi-Jet is used.
- Sufficient for vessels with air supply of min 5m3/min at 7 bar.

Part No.	Description	Qty.
3201-21100	Stromme Maxi-Jet with air valve and couplings.	1
3201-21150	Y-piece with couplings and pressure gauge.	1
3201-21200	Hatch protection, 2½" with couplings.	2
3201-21250	Water hose, 2½" x 30 meters with STORZ B coupling on both ends.	2
3201-21300	Water hose, 2½" x 15 meters with STORZ B coupling on one end, one end open.	2
3201-21325	Air hose PVC, 1" x 25 meters with claw coupling on both ends.	2

If spare couplings to connect our hoses to the air and water on deck lines are not available onboard, please inform type of couplings required preferably with IMPA numbers.

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Waste Water Removal

Stromme Submersible Pump Set

- Electric driven Stromme Submersible Pump for handling drainage of waste water and sludge after cargo hold cleaning.
- Effective and easy to use, delivered complete with 50 mtr cable and 30 mtr 3” hose.
- Cast iron and stainless steel.

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Waste Water Removal

Stromme Diaphragm Pump Set

- A compact and air operated Stromme Diaphragm Pump designed for simplicity in operation when removing sludge and water after cargo hold cleaning.
- Delivered complete with 50 mtr PVC air hose, 50 mtr flat hose, 3 mtr suction hose and Standard Rep Kit.
- Made in stainless steel and Santroprene for resistant acid use.

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Descaling

Stromme Deck De-Scaler TFP200

- Perfect for removing coatings, corrosion and cargo stains from deck, hatches and tank top on bulk carriers.
- DTFP200 3x440v/60Hz.
- Production rates up to 30m3 per hour.
- 200 mm cutting width.
- Supplied complete with cutter head, beam cutter drum and 30 mtr cable.

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Stromme PPE

Stromme Personal Protective Equipment for chemical use

Stromme Standard Protective Equipment
1 set for 4 persons:

- 4 x Splash Suit (L)
- 4 x Chemical resistant gloves, Solvex
  2 x Half mask, Draeger X-plore 3300
- 2 x Face mask X-plore 5500
- 12 x Filter X-plore ABEK2-HG-P3 RD

Stromme Acid Protective Equipment
1 set for 2 persons:

- 2 x Stromme Protection Overall (L)
- 2 x Chemical resistant gloves, Solvex
  2 x Half mask, Drager X-plore 3300
- 8 x Filter X-plore ABEK2-HG-P3 RD
- 1 bottle of Eye Wash 200 mm

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Stromme

- Cargo hold cleaning chemicals

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Stromme Aqualean HD

#1 product for cleaning cargo holds

Stromme Aquaclean HD is a heavy duty alkaline cleaner. Specially developed for cleaning the cargo holds and for removing stains and discolouring after challenging cargoes like;

- Coal (bituminous, Anthracite)
- Petcoke (Green Delayed, Calcined) and other oily and sticky cargoes.
- Ore (Nickel, Bauxite, Manganese)

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Stromme Holdcoat FC

A modern, ecological fair, protection for cargo holds

Stromme Holdcoat FC gives a good protection of the cargo holds and is recommended as a barrier when loading dirty and corrosive cargoes like;

- Coal (bituminous, Anthracite)
- Petcoke (Green Delayed, Calcined)
- Ore (Nickel, Bauxite, Manganese)
- Corrosive (Sulphur, Salt)
- Clinkers, Cement

The FDA approval makes Stromme Holdcoat FC a good solution for food cargoes like;

- Grain
- Sugar
- Fishery salt

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Stromme Holdcoat FC

An innovative, ecological fair, protection for cargo holds

What´s **Stromme Holdcoat FC**?

- It is a wax emulsion with wetting agents and inhibitors.
- It has a temporary good protection against rust.
- It is ecological fair and contains no environmentally harmful substance or toxics.
- The ingredients complies with the requirements of the FDA.
- It contains more than 24% renewable raw materials

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Stromme Cement & Rust Remover

– a better alternative than Muratic Acid

Stromme Cement & Rust Remover is specially developed to remove cement, clinker, concrete, rust, residues of iron ore, lime scales, copper and zinc concentrates.

Benefits;

- More safe to use for the crew, than Muriatic Acid.
- Protects the steel against Hydrogen corrosion.
- Cost efficient, the product should never be used as a concentrate.
- Has a very good ecological profile as it is made with a combination of special innovative raw materials that prevents hydrogen corrosion.
- Contains special inhibitors to protect the hull from corrosion.
- Has special surfactants used ensure a good wetting and it works better than normal acid, because the product penetrates into the smallest interstices and makes the cleaning significantly more efficient

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- Mariclean High Pressure Cleaners

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High Pressure Cleaning - Stromme Mari-Clean

Stromme is the owner and only provider of Stromme Mari-Clean

Stromme Mari-Clean is produced by Clena High Pressure System A/S, based in Tistrup since 1970.

Stromme Mariclean – a professional range of multipurpose high pressure cleaners, providing a cost effective and labor efficient solution for various cleaning purposes.

DNA: Built as simple as possible, with only high quality components.

Machines is designed, produced and tested at our factory
Made for continuous use without unnecassary stops
Easy to operate and maintain

Robust equipment designed for rough life at sea

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High Pressure Cleaning - Stromme Mari-Clean

Stromme is the owner and only provider of Stromme Mari-Clean

- Portable units from 200-500 Bar,
- From 15-30 liters per minute
- Cold and and hot water supply
- All built with stainless steel plates, lifting eyes, brakes
- Various equipment: Sandblasting, telescopic lances, safe equipments

Beside this range of this high pressure cleaner, we produce custommade high pressure cleaners. If you have special requirements, dont hesitate to contact Stromme.

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Choosing the right high-pressure cleaner

How to choose correct machine?

The right size machine depends on the task. The below table provides some typical examples:

TASK	REQUIRED PRESSURE
Dust of coal or grain - but **not** cement	7 bar (fire hydrant boosted by water jets)
General cleaning and rust removal of deck and structure	200-300 bar
Oily cargo residues like pet-coke and resin	300-500 bar , best: hot water
Descaling /paint and heavy rust removal	500-1.200 bar

For cleaning purposes the flow is more important than the pressure. The bigger the flow the bigger is the flushing effect and the ability to carry the residues away from the cleaning area.

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Washing with hot water

Stromme Mari-Clean Portable Hotbox

- Designed for cleaning with hot water
- Can heat the water up to max 100C / 212 F.
- Includes water boiler and fitted with a build on diesel tank to supply diesel fuel for the diesel burner
- Easy to operate and maintain.
- Epoxy treaded frame with stainless steel cover and large wheels for easy moving.

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Washing with hot water

Stromme Mari-Clean Portable Hotbox

- MHB 200-500 bar
- Capacity 11-21 litres per minute.
- Diesel tank capacity 30 litres.
- Weight 125 kg.
- Includes water boiler and fitted with a build on diesel tank to supply diesel fuel for the diesel burner.

Hotbox hook up illustration

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How to reach the high areas?

Stromme Mari-Clean PowerLance Kit

- Delivered in a package with the Stromme Power Lance, Stromme Tripod, special lance holder adaptor and spray gun.
- Can be used without loosing water pressure for
    - MC 201/18
    - MC 301/21
    - MC 351/25
    - MC 501/18
- Portable to carry and can be mounted and operated by one person.
- Working lengthh of 2,5 to 12,5 mtr

Illustration of Mari-Clean PowerLance Kit

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Stromme You Tube Channel

https://www.youtube.com/channel/UCH5PmjVscr5fmq2vrL-50qg

We have created our own YouTube channel to reach out to new customers as well as existing ones with our message.

The channel includes;

- Informatoin about Stromme
- Information about Stromme Mari-Clean high pressure cleaners
- Guide Stromme Aquclean HD
- Guide Stromme Holdcoat FC and Coror White FC
- Guide Stromme Cement Remover
- Guide Stromme Rust Remover
- How to use Stromme Pump Spray Foam System, Handy Spray and Tank Spray
- How to use Stromme Combi Jet and Stromme Maxi Jet

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Stromme – Supply Ports

New Supply Port in Riga, Latvia

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Thank you

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