Why do Dry Bulkers clean their Cargo Holds?
To satisfy the different demands from cargo owners of hold condition
For approval of holds before loading

THE FIRST DEDICATED CARGO HOLD CLEANING BRAND IN THE MARINE INDUSTRY

Stromme’s extensive experience in the field ensures that our customers are getting the best solutions and most durable innovations that will withstand the roughest conditions at sea. Together with world-leading ship supplier and trading house; Seven Seas Group, we offer customers a true one-stop service for all of their needs - saving precious time and money.

COMMON CARGO HOLD CLEANING CHALLENGES

CARGO ROTATION
Some cargoes can cause problems. Cargo rotation between cement, coal / petcoke and grain / pulp can easily result in either costly cleaning by contractors or several days off-hire.

SHORT-TERM SOLUTIONS
A common procedure is to paint the holds – both for cosmetic reasons and to save time in port. However, sooner or later the paint will need to be removed, and scrubbing of thick layers of paint is a costly and time-consuming process.

LESS HANDS AVAILABLE
Vessels are run with less crew, and tightened safety regulations make it difficult to hire help at port with short notice. Therefore, more and more, cleaning has to be done from tank top level with closed hatch during the voyage.

NO TIME FOR CLEANING
Ballast trips are getting shorter, and time spent off-hire costs money for owners. The faster the cleaning is done, the better. Ship owners and operators need a cost-effective solution for their cleaning challenges.
Durable innovations that will withstand the roughest conditions at sea

**A COMPLETE, POWERFUL CLEANING SOLUTION**

From black cargo to grain standard, Stromme provides you with a complete, powerful cargo hold cleaning solution

**EFFECTIVE DISSOLVING AND CLEANING AFTER UNLOADING**

- Complete spray foam equipment to clean and degrease the cargo holds after discharge of challenging cargoes
- Effective cleaning chemicals that dissolve stains and remove discoloring
- Quality products offering easy application of chemicals for all types of bulk carriers

**POWERFUL CLEANING OPERATION**

- Powerful equipment specially designed for tank to top level, cleaning will be done in a minimum of time
- Stromme cleaning equipment is easy to mount and operate

**Heavy-duty equipment** made for a long life at sea, built according to European quality standards

**PROTECTING THE CARGOHOLDS**

- Stromme Holdcoat FC protects the paint against a wide range of cargoes and acts as a protective barrier between the cargo and the cargo holds
- Stromme Holdcoat FC is ecologically fair and does not contaminate the cargo. It is therefore safe for carrying food cargo and approved by the FDA
- Easy to apply and easy to remove with Stromme Aquaclean HD. If applied before loading, the cleaning time will be reduced and frequent, costly cosmetic repainting can also be prevented.
STROMME AQUACLEAN HD

- Cost-effective heavy duty alkaline cleaner
- Specially developed for cargo hold cleaning to remove stains and discolouring after challenging cargoes such as petcoke, coal and other oily cargoes
- Applied as wet foam, giving a better cleaning effect
- Non-flammable, biodegradable, water-based

STROMME CEMENT & RUST REMOVER

- Specially developed to remove cement, concrete, lime deposits, clinker and rust
- Effective in removing cement, lime wash and residues of iron ore
- Contains inhibitors to protect the steel from hydrogen corrosion
- Good ecological profile of surfactants
- Suitable for different surfaces
- DO NOT use Stromme Cement & Rust Remover on copper, brass or zinc surfaces
- Cost effective

ORDER NUMBER: 3205-10100

ORDER NUMBER: 3205-30150
PROTECTIVE COATING

STROMME HOLDCOAT FC
- Stromme Holdcoat FC protects the paint against corrosion and stains from a wide range of cargoes
- Ecologically fair, it does not contaminate the cargo
- 100% FDA approved ingredients, meaning it is safe for carrying food cargoes
- It can be removed with Stromme Aquaclean or equivalent alkaline cleaner
- Meets Marpol Convention MEPC 63, Annex5
- Upon applying it appears white in color, hence visible to the eye to see where the protective coats are deposited, when dried it changes from white to transparent

STROMME COLOR WHITE FC
- Stromme Color White FC is an additive color white pigment mixed together in a ratio of 10% with Stromme Holdcoat FC to make Stromme Holdcoat FC visible when dried. The port authority and surveyors can easily see where it is applied and the holds are protected
- Stromme Holdcoat FC mixed together with Stromme Color White FC is applied between the cargo and the cargo hold
- 100% FDA approved ingredients, meaning it is safe for carrying food cargoes
- It can be removed with Stromme Aquaclean or equivalent alkaline cleaner
APPLICATION EQUIPMENT

STROMME PUMP SPRAY FOAM SYSTEM

• For strong acids, alkaline cleaners and Stromme Holdcoat FC
• Specially developed pump bolted on stainless steel trolley to make handling and moving easy for a single person
• Includes two lance kits:
  • Mini-Jet – a small, light-weight appliance with nozzles
  • Regular foam lance for strong alkaline cleaners
  • Stainless steel lance for applying Stromme Holdcoat FC and strong acids

STROMME MIDI SPRAY SYSTEM

• Simple solution for small/medium and large bulk carriers
• Small light-weight labour-saving appliance specially designed for application of our Stromme Holdcoat FC and Aquaclean HD
• Delivered with all necessary equipment needed for a complete and quick chemical application

STROMME HANDY-SPRAY

• For alkaline cleaners and Stromme Holdcoat FC
• Perfect for smaller bulk carriers, Stromme Handy Spray system is a ready-to-use electric driven chemical sprayer
• Max. spraying height of 12 meters
• Fully extended the telescopic lance is 7.3 meters long

ORDER NUMBER: 3201-25000
ORDER NUMBER: 3201-27000
ORDER NUMBER: 3201-28000
WATER FLUSHING EQUIPMENT

**STROMME MAXI-JET**
- Recommended for vessel sizes from Panamax upwards
- Our most powerful equipment to clean and maintain cargo holds of any size from tank top level
- Accurate and powerful venture system allows 10-15 times more effective cleaning effect compared to normal water nozzles

**STROMME COMBI-JET**
- Recommended for vessel sizes up to Supramax
- Easy assembly tripod and gun with fitted wheels to move around freely
- Gun pivoted on tripod – can rotate 360°
- Air/venture system boosts the water pressure

**STROMME MINI-JET**
- For fresh water cleaning and smaller spot cleaning jobs
- Small, light-weight labour-saving appliance specially designed for shipboard cleaning and chemical application
- Delivered with special chemical foam nozzle
STROMME MARI-AIR
The Stromme Mari-Air range of powerful and compact air compressors
- Designed for an ambient temperature of 50°C working environment
- Compressors power ranging from 4 to 400 kW
- Maximum standard working pressures: 8, 10 and 13 bar
- Capacity ranging from: 43 to 4,000 m³/h
- Air, fresh water or sea water cooled
- Full automatic control
- Motors and coolers sized for marine use
- Easy to install and maintain
- Low lifecycle costs

STROMME DIAPHRAGM PUMP 50 MB COMPLETE
- Portable, reliable high quality diaphragm pump bolted on steel trolley to make handling and moving around easy for a single person
- Delivered with all necessary accessories including suction and discharge hoses, hatch protection and a complete pump repair kit

STROMME SUBMERSIBLE PUMP
- Electric-driven submersible pump for effective waste water and sludge removal
- Delivered with all necessary accessories including hose and cable

230V 1ph ORDER NUMBER: 3203-50230
230V 3ph ORDER NUMBER: 3203-32220
440V 3ph ORDER NUMBER: 3203-50440

PLEASE CONTACT US TO FIND THE CORRECT SOLUTION FOR YOUR VESSEL.

ORDER NUMBER: 3203-01000

POWERFUL CLEANING SOLUTIONS
PROTECTIVE EQUIPMENT

STROMME STANDARD PROTECTION KIT

- Stromme protective clothing is designed to provide good protection against spray and splashes from cleaning with water and/or chemical mixtures.
- Splash suit, size large – green X 4pcs
- Chemical resistant gloves X 4pcs
- Half mask, X-plore 3300 (M) X 2pcs
- Full face mask, X-plore 5500 (M) X 2pcs
- Filter, X-plore ABEK2 HG-P3 RD X 12pcs

ORDER NUMBER: 1705-81100

STROMME ACID PERSONAL PROTECTION KIT

- Stromme splash suit overall, size XXL – blue X 2pcs
- Chemical resistant gloves X 2pcs
- Half mask, X-plore 3300 (M) X 2pcs
- Filter, X-plore ABEK2 HG-P3 RD X 4pcs
- Plum eye wash, bottle 200 ml

ORDER NUMBER: 1705-81250
HIGH PRESSURE CLEANERS

STROMME MARI-CLEAN

Mari-Clean multi-purpose high pressure cleaners are a labor-saving and cost-efficient solution for general cleaning and maintenance tasks onboard. They are easy to operate and maintain, requiring a minimum of training.

Mari-Clean suits all general cleaning jobs onboard, including; deck cleaning, removal of damaged paint and rust in ballast tanks and cargo holds, removal of rust and cement from hatch covers and cargo grabs, cleaning of engine room, heat exchangers and exhaust boilers.

- Stainless steel covers
- Cold or hot water, portable or stationary
- Range from 160-1200 bar
- Easy to operate, easy to maintain
- Large wheels with brakes (portable units)
- Plunger pump with ceramic pistons
- Motor 3-phase, class F, protected by thermal overload switch
- Automatic start and stop function from spray gun
- Tailor-made solutions available

The Mari-Clean machines are designed for heavy duty use over longer periods of time and have a great durability with low spare part consumption.

A wide range of accessories such as rotating nozzles, pipe cleaning nozzles, chemical injectors and sand injectors are available.
PORTABLE HIGH PRESSURE CLEANERS

The portable units are easily mobile fitted with large wheels and brakes.

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<th>MODEL</th>
<th>WATER</th>
<th>WORKING PRESSURE (bar)</th>
<th>WATER FLOW (ltr/min)</th>
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STATIONARY HIGH PRESSURE CLEANERS

Hot water inlet max. 85°C. Also available as multi pump system.
HIGH PRESSURE CLEANERS

STROMME MARI-CLEAN PORTABLE HOTBOX

This compact and efficient portable Hotbox provides a convenient way for hot water cleaning by using a quick and easy connection fitted with flexible hoses and quick connectors to hook-up with the high pressure cleaner instantly to supply pressurised hot water for high pressure cleaning tasks.

• Heats water up to the maximum temperature of 100°C / 212°F.
• Equipped with thermal switch and flow monitor.
• Fitted with built-in tank to supply diesel for the burner.
• Built with large wheels for quick and easy moving from place to place and stations by engaging the brake on the wheels.
• Easy to operate and maintain.
• Epoxy treated frame with stainless steel cover.
• Build for long lasting life at sea environment.

ORDER NUMBER: 3111-09350

STROMME HP500 STANDARD PROTECTION KIT

• Provides personal safety protection up to 500 bar pressure.
• MC Overall, XXL < 500 bar (Also suitable for sand blasting)
• Helmet GP24 with visor and ear protection
• Safety goggles PSA EN166-Kat2
• MC boots
• MC HP500 gloves

ORDER NUMBER: 1707-50000
VERSATILE ADD-ON

STROMME POWERLANCE KIT

This new addition combines with the mobility of the Stromme Tripod which has been explicitly designed for high reaching and high pressure cleaning function to save time and labour. It makes cargo holds cleaning more efficient with less tedious manual works for the cleaning crews.

- **Portable** enough to carry and easy to assemble by a single person.
- **Extendable telescopic lance** can lengthen and reach a working height of 2.5 to 12.5 meters with a maximum working pressure of 300 bar.
- **The lance clamping position** can be adjusted to suit individual height and preference.
- **Able to rotate 360°** around its pivoted axis.
- **Frame coated with epoxy paint** for long lasting life at sea environment.
- **Delivered in a package** with the Stromme Tripod, its specific lance holder adaptor and 290 bar high pressure spray gun.
- **The Stromme Tripod** has different lance holder adaptors to fit specific lance for Combi-Jet, Acid lance, Mini-Jet on top of the PowerLance.

ORDER NUMBER: 3111-37690

Adapter PowerLance  Adapter Combi-Jet  Adapter Acid Lance  Adapter Chemical Lance
DELIVERY TIMES

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