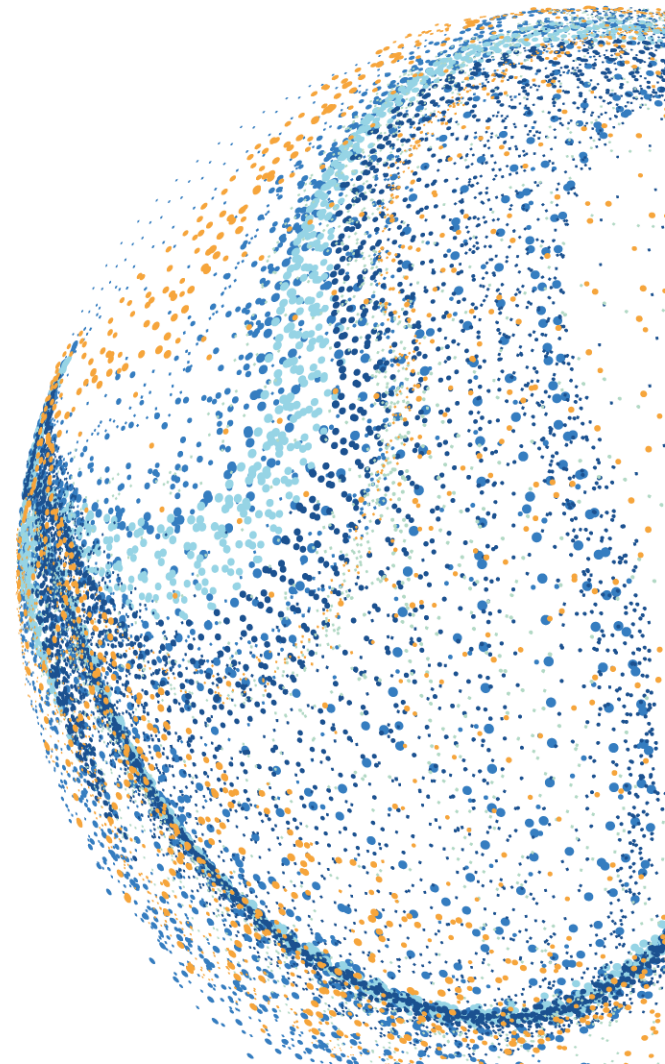


# Wilhelmsen Timm Ropes













Eurocord/Cordage Institute  
Vienna, 14<sup>th</sup> of June 2022



# Group structure



Wilh. Wilhelmsen Holding ASA

Maritime Services	New Energy	Strategic holdings and investment
Ships Service	 NorSea 75%	 Wallenius Wilhelmsen 38%
Marine Products	 NorSea 88%	Treasure ASA 77%
Ships Agency	 edda wind 25%	 QUBE ~ 2%
GBS	 Tpeka 100%	 WilNor Governmental Services 87%
Wilhelmsen Chemicals	 massterly 50%	
Ship Management	 RAALABS 100%	
Insurance Services	 DOLITTLE 46%	
	 LOKE 16%	
	 ivaldi 16%	

(all Maritime Services companies are 100% owned)

# We have the largest maritime network in the world

**75,000**

port calls

**3,500**

marine professionals

**200,000**

product deliveries  
per year



**100,000**

tonnes regulatory compliant  
chemicals produced yearly

**100,000**

crew members  
assisted each year

**50%**

of global merchant  
fleet as customers

# 160 years of maritime experience and expertise



**1861**

Wilhelmsen founded by Morten Wilhelm Wilhelmsen



**1976**

Barwil Agencies was established



**2005**

Wilhelmsen Maritime Services was established and acquired the Unitor group

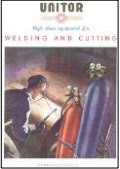


**2016**

Wilhelmsen acquired TIMM AS

**1905**

First delivery of a maritime product via Unitor group



**1982**

Unitor group moved into chemicals through acquisition of Perolin



**2011**

Wilhelmsen acquired Nalfleet



# Our innovations are helping to reshape the maritime industry

We work with you to find solutions to the problems that matter most to you



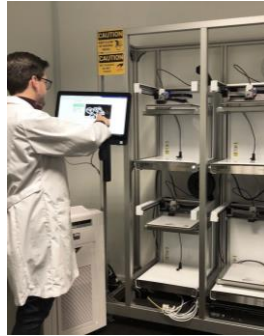
## Digital Mooring Ropes

Improve safety and reliable rope life with the world's first digital rope



## Line Management Plan

A purpose-built application that provides an overview of the mooring equipment and usage onboard in just one app and available on all devices



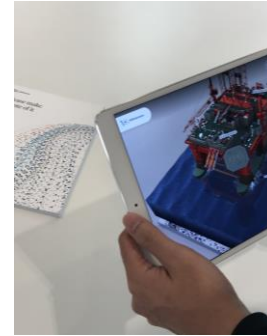
## In-port 3D printing

Shorten lead times from months to a matter of hours with 3D printing



## Virtual reality training for welding

Creating a safer training environment by bringing virtual reality into the equation



## Augmented Reality

Combining AR with 3D renders of marine products and systems to enhance the learning experience

# Main solutions

Products and services carefully tailored within five areas



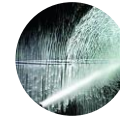
## WATER

Nalfleet™ water treatment products to treat and protect your on board systems.



## MAINTENANCE AND REPAIR

Unitor™ welding, refrigerants, gases and cylinders to optimise the performance of your vessel.



## CLEANING

Unitor™ chemicals and equipment to cover the essential cleaning needs of all parts of your vessel.



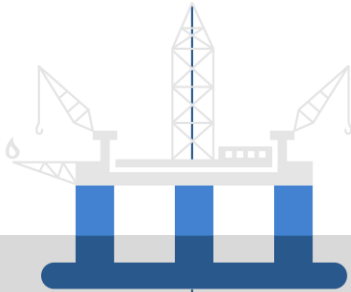
## OIL

Unitor™ fuel treatment chemicals to improve your fuel quality and reduce sludge and emissions.



## ROPES

Our Timm™ ropes are the result of continuous development and craftsmanship since 1772.



# Rope Solution

Standardised solution with an unrivalled global network, including services and technical expertise, that enables safe and efficient mooring operation for your vessel



## Conventional Mooring Rope

Standardised floating mooring ropes for routine mooring needs



## Advanced Mooring Rope

Special purpose ropes for winches, especially Ro-Ro and cruise vessels



## High Performance Mooring Rope

High performance HMPE rope



## Rope Protection

High tenacity chafe guards that protect ropes from external abrasion



## Rope Stretchers

Mooring tails that protect the mooring lines



## Accessories

Repair kits, boss links and fall preventer device to increase safety and compliance



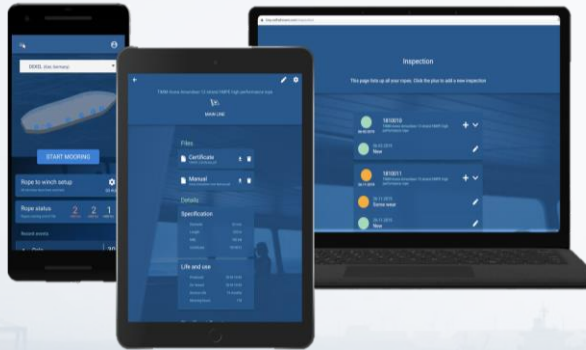
## Snap Back Arrestor (SBA)

Ropes with SBA lowers risks of snap backs to create a safer mooring environment



# Line Management Plan (LMP) and Smart Ropes

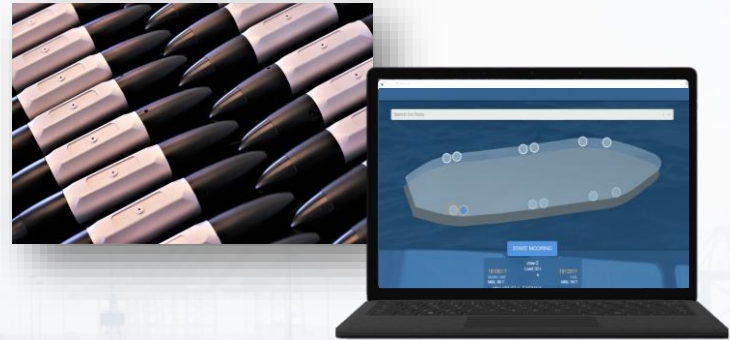
## LMP (Line Management Plan)



The latest version of the Mooring Equipment Guidelines (MEG4) requires all vessels to implement a digital line management plan.

The Line Management Plan is a purpose-built application, making it easy to keep all the needed information updated and available on all devices. Our goal is to make rope management hassle-free and mooring operations safer.

## Smart Ropes



Mooring injuries are among the most frequent causes of personal injuries onboard, and each year several hundred people are killed by line failures.

For the first time the crew will have the necessary insights to make safe and informed actions to minimize the risk of accidents. Smart Ropes will revolutionize mooring safety and bring us one important step closer to our vision of eliminating all mooring related accidents.



**MPA**  
**International Safety@Sea Awards**  
**2020**

**Winner**



## A consolidated approach to safer mooring

Wilhelmsen's Marine Products has won in the open category at the International Safety@Sea Awards 2020, an award organized by the Maritime and Port Authority Singapore (MPA)

Our winning entries include:

- Smart Ropes
- Line Management Plan
- Snap Back Arrestor (SBA)

We believe that safer mooring operations can only be achieved when we investigate the process step by step, where Smart Ropes provides instant tension monitoring, Line Management Plan (LMP) collects and uses data to make rope management hassle-free and Snap Back Arrestor (SBA) acts as an added safety feature to ensure the whole process will be carried out smoothly





**GloLitter**  
Global Industry Alliance  
Reducing marine plastic litter from sea based sources



**GloLitter**  
partnerships



- ❑ IMO, FAO, UN Global Compact
- ❑ 30+ governments and strategic partners.
- ❑ identifying best practices, recommending regulations and guidelines

Key Issues we start with: **Circular Rope Project**

1. Address the legal challenge of transporting marine litter
2. Connecting with the recycling industry to ensure a circular rope economy

**Join us to be a part of the solution!**



**Wilhelmsen**

