

WINTER 2021

Europort 2021 exhibition was a success and it was a pleasure to meet many customers. Also for our partners from Miko Marine, Wencon and Doublepower, it was great to meet the Dutch customers of their products. We showed many new articles, some are ready for the market and are available yet and others are in the last phase before they can be ordered. The responses from all of you on this new products was overwhelming. At the moment of writing this newsletter we are unfortunately back with all kind of COVID-19 restrictions. The year 2021 was very productive for us and above all expectations. We hope and trust that we can supply you as customer next year in the same way as this year, but as everyone knows there are many challenges for 2022. The global logistic chain is still not as it has to be, availability of raw materials is a huge problem, energy prices are extreme high as we can see daily in the news. This all has a negative effect on lead times and prices in all layers of the product chain. The RMN team wishes you and your family a great Christmas Holidays and a prosperous New Year. Stay all healthy and safe and meet you again in 2022.

WENCON SOLUTIONS FOR PLANNED MAINTENANCE

Repair instead of replacing

Wencon Solutions for dry docking, saving cost, time and environment when performing planned maintenance.

Maintenance and repair that require replacement parts, may delay a docking process considerably. Therefore, having alternative solutions to replacements, and maintaining parts continuously, during each dry-docking, can in some cases extend the lifetime by up to 10+ years, which makes good economic sense.

Avoiding high replacement costs common challenges like bimetallic corrosion, cavitation, and erosion/corrosion damages in those limited access areas, are often associated with a high replacement and labor cost.

Protection and preventative measures

Avoiding bimetallic corrosion, cavitation, and erosion/corrosion should be a goal altogether, as this will extend the life of many of these parts. We see more and more vessels will apply a protective layer of coating to new parts before installing them.

In the future, a small touch-up of any imperfections in the paint will suffice to keep the part corrosion-free for the next and many more docking inspections.

Being prepared for the unexpected.

Despite all the well-intended planning that lies ahead of every docking, there will always be surprises when the subsiding water in the dry dock, reveals unexpected areas that need repair and refurbishment.

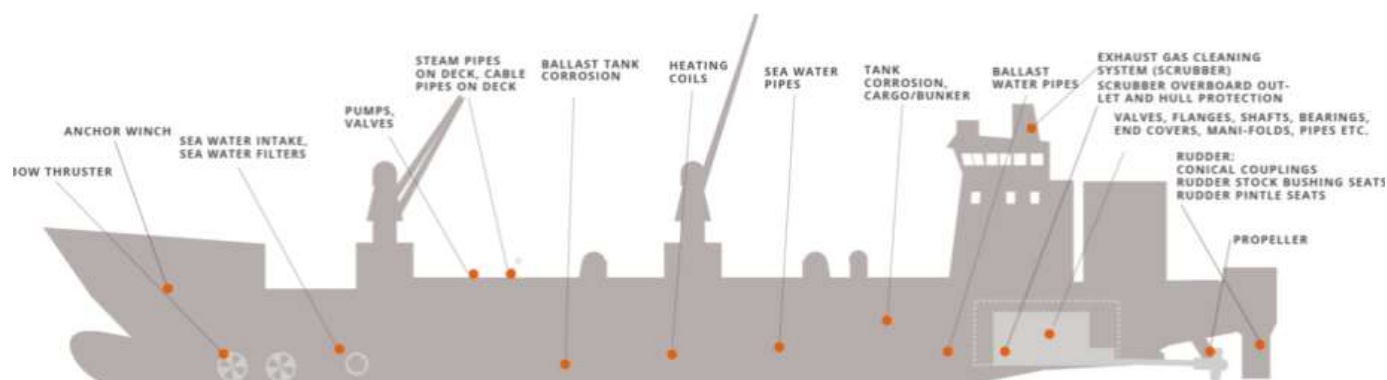
With a docking kit onboard prior to docking, you may specify the use of the products from the Wencon Docking kit in the Docking Specification as owners supply. Thereby bypassing delays and avoiding additional costs on those unexpected items that may arise during dock inspection.

Circular economy in ship maintenance.

Finding new ways to reduce a vessel's carbon footprint has become increasingly important to shipowners, making it attractive to think in circular economic terms: Prevent, repair, refurbish, instead of a linear 'use and dispose of' way of thinking.

To Wencon ApS, this way of thinking has made good economic sense for more than 35 years.

EXAMPLES OF DRY DOCKING REPAIRS AND MAINTENANCE



NEW DATA LINK EX LED FLOODLIGHT

The latest development from our Croatian partner DATA LINK is a range of **EX ATEX LED Floodlights with NFC System**. The light is intended for use in potentially explosive atmospheres of gases, vapors and dust in industries such as refineries, offshore installations, petrochemical industry, chemical industry, pharmaceutical industry, food processing, shipbuilding and mining. All the information of this light fixture can be read out via the NFC system. Normal tags on the outside of the fixture with information about building year, serial number and other information can fade away over the years. Now with this system you can read it out with your Smartphone. The fixture can be ordered in 60W (~8.600 lm) and 140W (~20.100 lm) version with different light beam angles.

Seawater resistant

Especially for seawater conditions the Floodlight can be delivered with an optional cataphoresis surface treatment to protect the housing against the harsh environment at sea.

The Floodlight has a very high protection and is in that way suitable for all kind of applications. The protection is IP66 and IK08 and can be used in ambient temperatures of +40°C to -40°C. Lifespan on +25°C is 60.000 hours.

The Explosion protection is II 2G Ex db op is IIC T6 Gb; II 2D Ex tb op is IIIC T85°C Db for Gas Group IIA-IIB-IIC and Dust Group IIIA-IIIB-IIIC
Type of protection Ex db – Ex tb. Zone level 1 Gb- 2 Gb and 21 Db – 22 Db

The Floodlight comes in a very attractive price range on the market.
The complete product including the LED PCB's are developed and produced in Croatia.



DOUBLEPOWER!! DAY LINEAR LED LUMINAIRE

An exceptionally flexible linear LED luminaire with high efficiency and low glare. Developed for low and medium high buildings such as warehouses, workshops, showrooms etc. where a low glare factor is important.

Original concept with many possible output variations and lighting characteristics.

Luminaire efficiency up to 165 lm/W.

Low glare factor and very comfortable lighting conditions thanks to the special construction and selected optical system.

Life-span L80B50 over 105.000 hours.

IP20-IP66 enclosure rating.

Unlimited 6-8 year guarantee.

Clear and opal enclosures available.

Available as HE: High efficiency = maximum luminaire efficiency and HO: High Output = maximum luminous flux versions.

Exceptional modularity thanks to free combinations of 1 to 8 modules.

A luminaire designed with the highest possible requirements on long-term sustainability.

The basic life span with an L80B10 specification is at least 80.000 hours and with an L80B50 it even exceeds 105.000 hours.

Unique thermal management thanks to carefully designed aluminium body it stays far below temperature limits.

DAY LED WITH EXTREME LOW GLARE FACTOR



SEALITE MARINE PIPE FLOATS

Sealite pipe floats (SL-PF) are rotationally moulded from UV-stabilised polyethylene, and can be secured around pipes, hoses and cables for use in dredging or other marine applications. Each kit comes in two halves with associated hardware, and is stackable for storage or within a shipping container for economical transportation. The units have a number of convenient features including tapered internal ends to allow the pipe to flex, and an internal anti-slip mechanism. As an option, the marine floats can be filled with closed-cell polyurethane foam to prevent water ingress in the unlikely event of damage.

Sizes available for pipes with an OD of 8, 10, 12 and 24 inches.



SEALITE BARGE LIGHTS

3NM LED Barge Light (Battery Powered)

The Sealite BargeSafe™ 3NM battery powered LED barge light is certified to UL 1104 and COLREG-72 compliant with >3NM visible range. The LED barge light is one of the most advanced in its class, and incorporates a host of innovative features designed to make the unit extremely user-friendly. The world-class LED lens is designed and manufactured by Sealite and achieves precise intensity and sectoring requirements from a single LED light source.

This design helps achieve a lower operational current compared with alternative **LED barge lights** – **making the unit ultra-efficient and offering a battery run time of up to 45 nights.**

A magnetic base provides strong fixing in position to the barge deck. Available as a 360 degree all round light with flashing or steady-on flash characteristics.



TEP EX JUNCTION BOXES RK 01

Ex Junction boxes RK 01 with an enclosure made of PA glass-fibre reinforced polyamide, color black. Cover with integrated thermoplastic elastomer gasket, closes with four M5 stainless steel AISI 316L screws also all external metal parts are stainless steel AISI 316L. Protection degree IP 66 Category 1, resistant to shock IK08 for Zone 1, 2, 21, 22. Apparatus category; II 2GD, Explosion protection; Ex db eb IIC T6 Gb, Ex ia/ib IIC T6 Gb and Ex tb IIIC T80°C Db, environment temperatures $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$, $T_a \leq +70^{\circ}\text{C}$ for Exi [ATEX] $-50^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ [EAC], rated voltage 630V. Maximum voltage for EX i; 60V.

The boxes are extremely attractive priced and are also be used a lot for standard industrial applications without the need of ATEX. It saves a lot of labor time because it is a so named plug and play unit. All components are installed and ready to use in your installation.

Many different possibilities available and in the same range we can also supply installation switches and larger terminal boxes.

This RK 01 with modular terminal blocks is for us a stock item.



RAM-NEK HATCH COVER TAPE

MT201 RAM-NEK MARINE TAPE

Is a single component, factory extruded 1,22 meter long strip of high-adhesive plastic formed to the proper cross-section between two protective wrappers, one of which is siliconen coated for easy stripping (brown paper). The other is non removable clear polypropylene covering which remains in place over the adhesive to allow "foot pressure" on the tape during application. It offers the ultimate protection for water sensitive cargo and provides that extra confidence in protected cargo. It can help protect against the number one cause of cargo damage - leaking covers. The product is available in a width of 75mm (RMN 94RAM1003), 110mm (RMN 94RAM1005) and 150mm (RMN 94RAM1006) respectively IMPA Numbers 232461, 232462 and 232463.

MT212- Maritape 40 Hatch cover tape, thickness 40 mills.

Is recommended for marine applications where the weather and sea conditions can be moderate and predictable, and only demand a medium strength tape. Makes it possible to acquire reliable, flexible and effective medium duty sealing for the hatch cover. Offers far greater strength than duct tape but does not quite equal the HD critical strength Marine Tape. The product is available in widths of 100mm (RMN 94RAM1000) and 150mm (RMN 94RAM1001) respectively IMPA Numbers 232456 and 232457.



ANTI-SPLASHING TAPE FOR SHIP'S ENGINE ROOM

Solas and Class approved anti-splashing tape

For preventing outbreak of a fire caused by a splash of combustible oil, such as fuel oil, lubricating oil, etc. from oil pipes connected to an engine or a generator in a ships engine room.

Solas approved and BV/ABS/DNV approved.

Available in rolls of 10 meter in widths from 35mm up to 1.000mm.

Impa numbers 871801 up to 871808.



On behalf of our entire RMN Team

Have a great Christmas Holidays and a prosperous New Year

Stay healthy and Safe

Looking forward to meet you again in 2022