



When Safety Matters



Global Service & Support

Consilium has a worldwide network of subsidiaries and agents. The reason is simple. We want to give you the best support wherever you are!

Our support includes everything from service and maintenance to spare parts and full retrofit installations. Marine safety is our key business and we work in close cooperation with our customers and users.

Through our own subsidiaries and agents Consilium is present in more than 50 countries including all major ports around the world.

We offer spare parts that are backward compatible with our initial equipment, well-trained service engineers as well as turn-key solutions for retrofit projects. Our After Sales department is divided into four areas; spare parts, service, support and annual performance test (APT).

Spare parts

Efficient processing and delivery are essential for successful running of an ongoing operation. That's why our experienced staff organizes advanced logistic services to meet our customers' specific needs. Spare parts will be available when and where you need them to optimize your operation and objectives.

We also operate a policy of continual assessment to be able to match any change in a customers' operation and respond quickly and effectively.

Service

We provide product education and service training for our service network, as well as to customers with special requirements.

Our local and international service network enables us to

- provide the right service technicians at very short notice
- offer full 24/7 support worldwide
- ensure that service is performed by highly trained engineers



Consilium is one of the world's leading companies in developing and marketing products and systems for safety, environment and navigation. Our product program includes fire detection, gas detection, emission monitoring and navigation equipment. We market our products and systems to international shipbuilders and shipowners as well as to oil, gas and other industries.

When you turn to Consilium, you benefit from unique expertise and a series of products and solutions without comparison in the market. For instance, we are the only company in the world that offers an integrated solution for fire and gas detection on ships and the first company to provide a speed log with an echo sounder function.

We always strive to be the customers' first choice.

Through high product quality, an optimized cost structure and a high degree of delivery reliability, global service and support, we aim to offer the best customer value on the market.

“When you turn to Consilium you can expect us to be there for you around the clock, every day of the year“

NAVIGATION DIVISION

Consilium has a long experience in developing and marketing equipment for the marine industry, beginning with the SAL Speed Log in 1912. Since then, we have broadened our product portfolio to include other critical navigation equipment. Our ambition is to provide reliability, service support and cost efficiency.

The product portfolio consists of in-house developed speed logs, navigational radars and radar systems, conning display, marine Voyage Data Recorders (VDR), Electronic Chart Display and Information Systems (ECDIS) and Vessel Traffic Systems (VTS) for coastal surveillance. Every product is designed to comply with the most stringent demands and for operation in the harshest conditions – from ice-breakers in the Arctic to submarines and coast guards.

In addition to our own products, we co-operate with a number of the industry's other main manufacturers when offering complete Navigational Package solutions. This ensures that you always can benefit from top range quality in both design and product throughout your entire project.

Thanks to our broad product range, we can provide attractive and competitive solutions for all segments within the marine market. All our solutions meet the requirements for both new constructions and retrofit installations.

Vessel and environmental safety

Our highly advanced marine radar platform is also available as dedicated Oil spill, Ice detection and Anti Piracy systems.

Consilium's VTS solutions are designed to monitor traffic in narrow or congested sea areas to give early warning of unauthorised entry around protected areas. We tailor every VTS to meet our customers' individual requirements. The range stretches from simple stand-alone radar systems to comprehensive sophisticated integrated navigation-aid systems incorporated with remote radar site controllers, multi-server, multi-operator workstations, AIS and CCTV.

We deliver both complete systems and components to the world's leading VTS solution providers. Consilium has a long tradition of advanced radar products and the use of radar for surveillance applications and we are constantly developing new solutions to meet future monitoring needs.



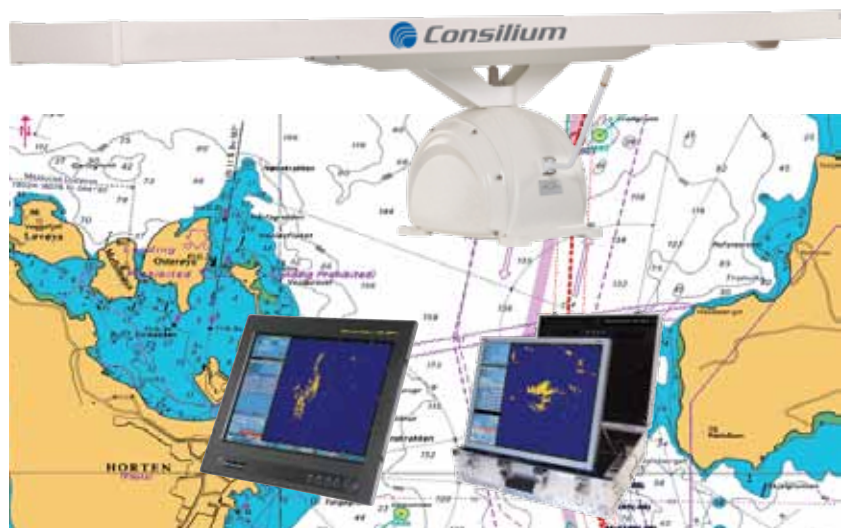
VDR/S-VDR

Consilium offers two Voyage Data Recorders, VDR and S-VDR. The VDR is designed to manage very fast and accurate new building installations. The S-VDR is a modular fully equipped Simplified Voyage Data Recorder, specialised for retrofit. Consilium VDR systems meet all the relevant requirements as demanded by IMO Standards and EU directives. Consilium has been involved in the development, manufacturing and installation of Voyage Data Recorders since 1996.



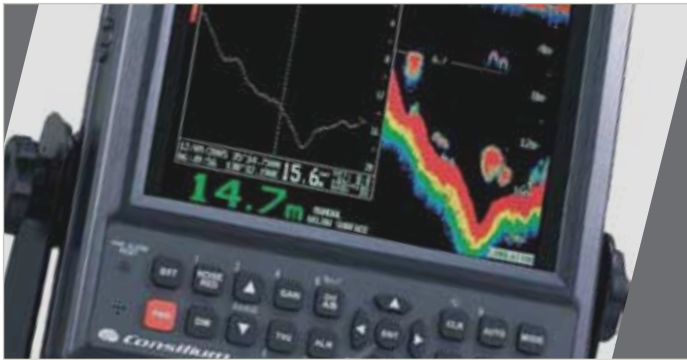
SPEED LOGS

Consilium SAL Speed Logs have been market leading since 1912. Having installed almost 10,000 systems since the first SAL Log, based on the acoustic correlation principle introduced in 1974, we continue to lead. The acoustic correlation principle makes it possible, depending on model, to simultaneously measure Water Track Speed, Bottom Track Speed as well as Depth with just one sensor. In addition to high accuracy, the solution requires only one hull penetration facilitating design and reducing both installation and maintenance costs.



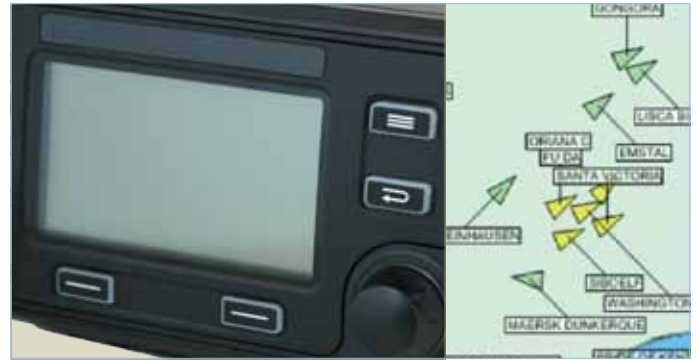
RADAR & ECDIS

The Consilium Navigation Systems are known for their modular design, high reliability and flexible interface. Consilium Radars can be connected to a large variety of radar sensors, either aloft or down-mast, to form all combinations needed for operation in the X and S frequency band. The Consilium ECDIS is an extremely powerful navigation and information display including advanced interface to operate and display all AIS and ARPA targets with seamless simultaneous presentation of ARCS ENC charts.



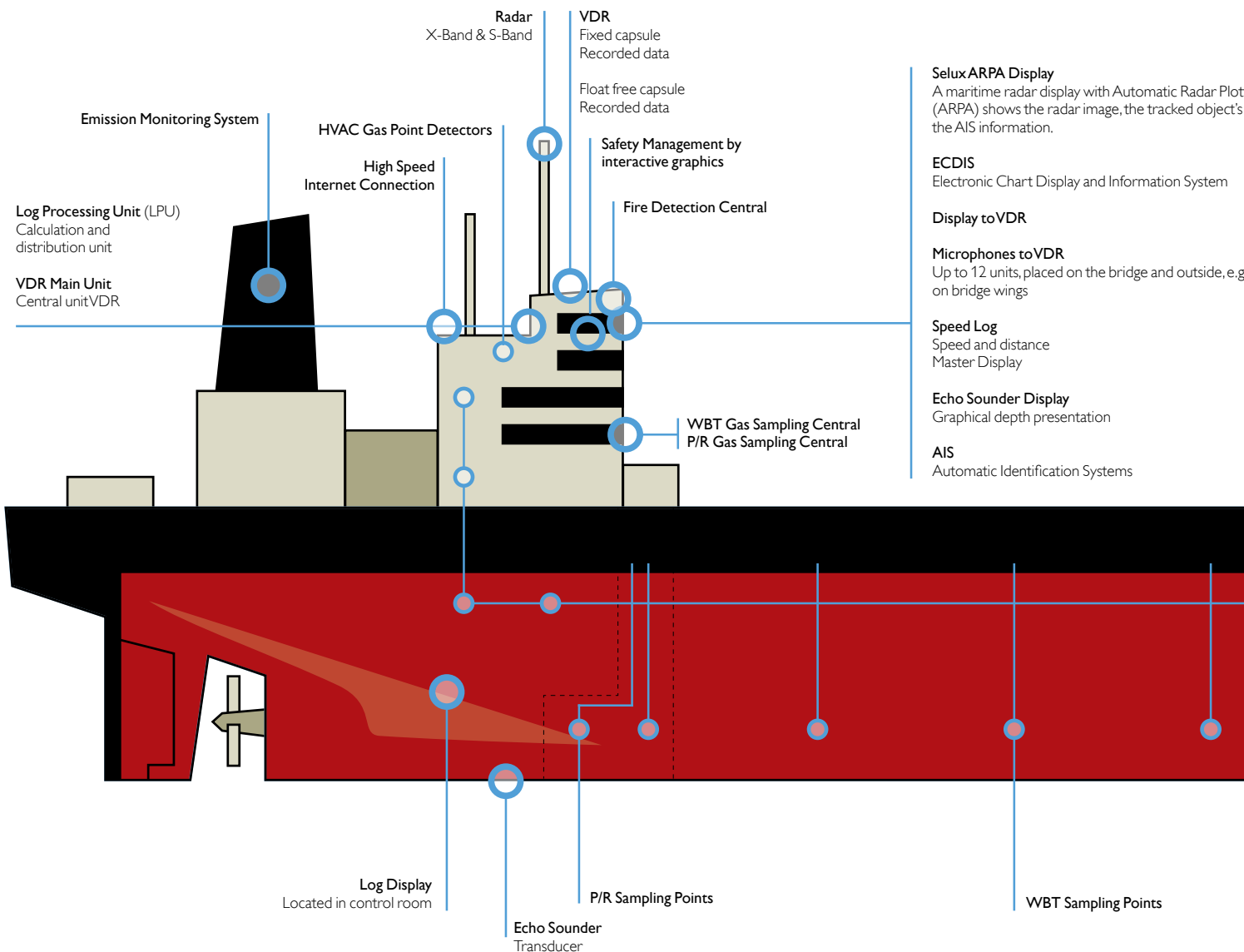
ECHO SOUNDER

IMO resolution-compliant single/dual frequency navigation echo sounder housed in electrostatically shielded compact ABS plastic cabinet. Certified to comply with EU Marine Equipment Directive (MED). Fully automatic operation, tracking bottom with appropriate gain, TVG, power Interfaces with GPS sensor to store depth data with LAT/LON and date information.



AUTOMATIC IDENTIFICATION SYSTEM

A sophisticated, fully integrated receiver and transmitter solution, approved to deep sea and inland waterway standards and offers a highly intuitive user interface. AIS and radar can be fused to create effective and efficient coastal tracking, surveillance and safety systems. Certified to IEC61993-2 and inland waterway standards according to RIS (River Information Systems).



Selux ARPA Display

A maritime radar display with Automatic Radar Plot (ARPA) shows the radar image, the tracked object's the AIS information.

ECDIS

Electronic Chart Display and Information System

Display to VDR

Microphones to VDR

Up to 12 units, placed on the bridge and outside, e.g. on bridge wings

Speed Log

Speed and distance
Master Display

Echo Sounder Display

Graphical depth presentation

AIS

Automatic Identification Systems



HIGH SPEED INTERNET CONNECTION

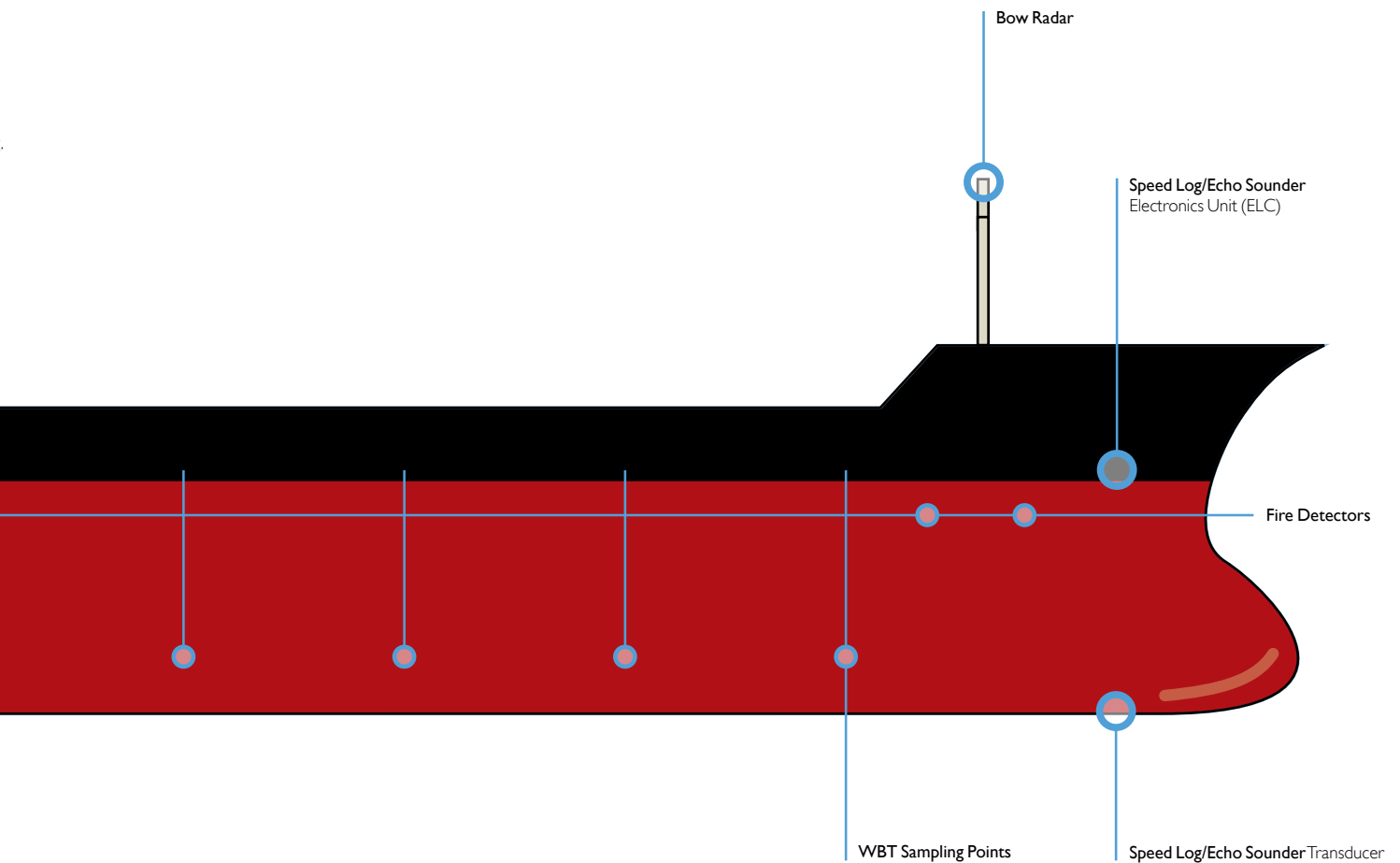
The Icomera X6 combines Wi-Fi, cellular networks and satellite communications. It performs the seamless aggregation and handover among all available cellular operators and the port WiFi, giving the highest data connectivity throughput and satellite fallback handling. Quality of service provides for categorization of the traffic, remote operability allow for constant monitoring and control.



SAFETY MANAGEMENT BY INTERACTIVE GRAPHICS

The ultimate interactive application for supervision as well as control of fire detection and other safety related systems of largest scales. Salvico SMiG is an interactive graphical system designed using latest technology and tools for graphic interface design to most advantageous interaction with the system operator.

ting Aid
course and



SAFETY DIVISION

Consilium has one of the market's widest selections of safety systems. Over the years, we have developed our systems based on the demands of our customers, new regulations and the company's innovations to become the first choice for shipyards and shipowners around the world. Within the fields of fire and gas detection, our market share amounts to almost 50 per cent of the world market in terms of systems supplied.

Fire Detection

As one of the world leading suppliers of marine fire detection solutions, the systems are built on two different principles for fire detection, offering analogue addressable systems and digital conventional systems.

A fire detection system from Consilium, enables control of fire doors, smoke vents, sprinkler systems, CCTV, telephone and personal pager functions, ventilation, fan systems etc. Since our business strategy is to serve the customer during the entire life time of the vessel, we have always backwards compatibility in mind when developing a new system.

Gas Detection

Consilium is the world leading supplier of systems for detecting toxic and explosive gases on board ships. We offer two kinds of systems, combinable in various configurations, with specific properties to suit all possible applications. This combined concept is used especially on LNG vessels.

You can combine Consilium's systems and integrate them in a total safety solution to meet very demanding safety requirements. We were the first supplier in the market to offer an integrated comprehensive solution for fire and gas detection on a ship.

Environmental Monitoring

Consilium offers an emission monitoring system for the measurement of nitrogen oxides (NO_x), sulphur dioxide (SO₂) and the greenhouse gas CO₂.

Our system is one of the first in the world to measure nitrogen oxides and verify the sulphur dioxide concentration in the exhaust after the smoke has been "scrubbed" by other systems.

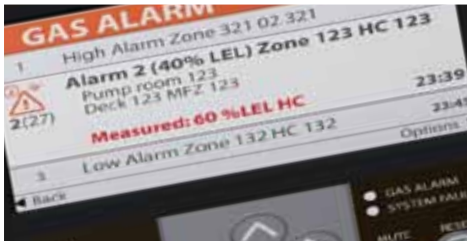
In order for the customers to obtain the maximum use of our products onboard, we have further developed the software together.

The system is based on an advanced technical solution with proven measuring techniques and is marine approved by Bureau Veritas classification society.



FIRE DETECTION

The Salvico Fire Detection range consists of conventional and analogue addressable systems. Both types are approved by all major classification societies worldwide. The Salvico systems also come in two types; sequential sampling and loop-configured analogue addressable systems. The Salvico systems are reputed as top of the line since having all the qualities and features an end user or installer may expect.



GAS DETECTION

Consilium offers two types of fixed gas detection systems, sampling- and a distributable point detection system. The Salvico Gas Detection systems are considered to be top of the line having all the qualities and features a user or installer can expect. The systems are found on oil tankers, chemical tankers and especially on specialized and safety-focused vessels such as LNGs.



MONITORING

The Salvico Emission Monitoring is fully compliant to Marpol Annex VI and the NO_x Technical Code 2008 for continuous measurement of NO_x, SO₂ and CO₂. MED approved by Bureau Veritas. The Salvico Monitoring range also comprises G1000 for Opacity/PM Monitoring, G2000 for Ambient Oil Mist Detection and G3600 for Inert Gas Analyzing. They are all high quality products and Type Approved by Lloyds Register. The emission monitoring family now also comprises a new detector, DOAS, which monitors across the duct for fast and accurate response with minimum maintenance.

You find us worldwide



- Consilium Offices
- Sales & Service Representatives

SWEDEN

Consilium Marine & Safety AB

Fire & Gas Marine Division

Gothenburg
Phone: +46 31 710 77 00
cmsab@consilium.se

Navigation Division

Stockholm
Phone: +46 08 563 05 100
cmsab@consilium.se

Storm & Co Skeppsradio AB

Gothenburg
Phone: +46 31 51 35 10
stormco@stormco.se

BELGIUM

Consilium Marine Systems BV

Zeebrugge
Phone: +32 50 70 30 97
info_nl@consilium.co.uk

CHINA

Consilium Shanghai Co. Ltd.

Shanghai
Phone: +86 21 5152 22 60
sales@consilium.cn

Dalian

Phone: +86 411 8386 4460

Qingdao

Phone: +86 0532 8786 9476

Hong Kong

Phone: +852 3521 19 14

FINLAND

Consilium Marine OY

Helsinki
Phone: +358 102819100
info@consiliummarine.fi

GERMANY

Consilium GmbH

Hamburg
Phone: +49 40 822 22 95-0
consilium@consilium-hamburg.de

GREECE

Consilium Marine Hellas

Piraeus
Phone: +30 210 428 7097/8
info@consiliumhellas.gr

INDIA

Consilium India Pvt. Ltd.

Mumbai
Phone: +91 2267935150-53

India cont

Vishakhapatnam:
Phone: +91 891 301 03 20
consilium.vizag@consilium.ae

Cochin

Phone: +91 484 238 4298

ITALY

Consilium Italy Srl.

Florence
Phone: +39 0571 1738 921
cmi@consilium.it

Genova

Phone: +39 010 553 3900

Naples

Phone: +39 081 542 3122

JAPAN

Consilium Nittan Marine Ltd

Tokyo
Phone: +81 3 5333 7060
cnm@consilium-nittan.com

NETHERLANDS

Consilium BV

Rotterdam
Phone: +31 182 382 422
info_nl@consilium.co.uk

NORWAY

Consilium Norway AS

Oslo
Phone: +47 22 30 90 30
mail@consilium-norway.no

SPAIN

Consilium RMI Spain S.A.

Bilbao
Phone: +34 94 404 2121
attcliente@consiliummispain.com

Barcelona

Phone: +34 94 404 2121

SINGAPORE

Consilium Marine

Singapore Pte. Ltd.

Singapore
Phone: +65 6570 8998
mail@consilium.sg

SOUTH KOREA

Consilium Marine Korea Ltd.

Pusan
Phone: +82 51 740 5869/71-4

CINK

(Consilium Iljin Navigation Korea)

Phone: +82 51 755-6193/4
+82 51 755 9191

QATAR

Consilium Qatar LLC

Doha
Phone: +974 442 4849

UAE

Consilium Middle East (FZC)

Sharjah
Phone: +971 6 55 70 740

Abu Dhabi

Consilium Middle East
General Contracting LLC
Consilium Middle East Eqmt.
& Spare Parts LLC
Phone: +971 2 622 93 46

SAUDI ARABIA

Dammam

Consilium Saudi Arabia
Phone: +966 3 8179214
info.ksa@consilium.ae

UK

Consilium Marine UK

Folkestone
Phone: +44 1268 41 77 45
info_uk@consilium.co.uk

Glasgow

Phone: +44 1268 41 77 45

USA

Consilium Marine US

Fort Lauderdale
Phone: +1 954 791 7550

Long Beach

Phone: +1 954 791 7550

Houston

Phone: +1 954 791 7550

VIETNAM

Consilium Vietnam JSC

Hanoi
Phone: +84 4 37 93 14 31

Ho Chi Minh City

Phone: +84 8 410 13 38



www.consilium.se



B70030880.11.1305.2