



RAYC  NTROL *biz*SAFE₃

rayControl pte ltd
7 Toh Guan Roag East #05-07 Singapore 608599
Tel: +65 65630544 Fax: +65 65600941
Company Reg No : 198602637N

**Authorised
SALES AND SERVICE**

Please contact
sales@raycontrol.com



HANLA IMS

Instrument (Level/Switch/Transmitter)

Machinery (Winch/Windlass/Steering Gear/Emergency Towing System)

Systems (VRCS/Loading Computer)



- TANK PACKAGE SOLUTION

TANK PACKAGE SOLUTION

HANLA

TANK
MONITORING
SYSTEM

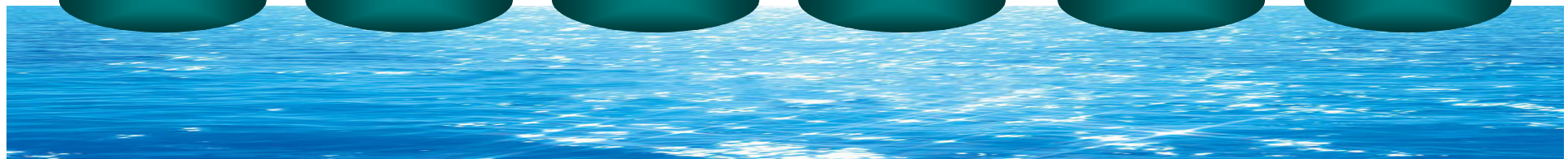
VALVE
REMOTE
CONTROL
SYSTEM

LOADING
COMPUTER

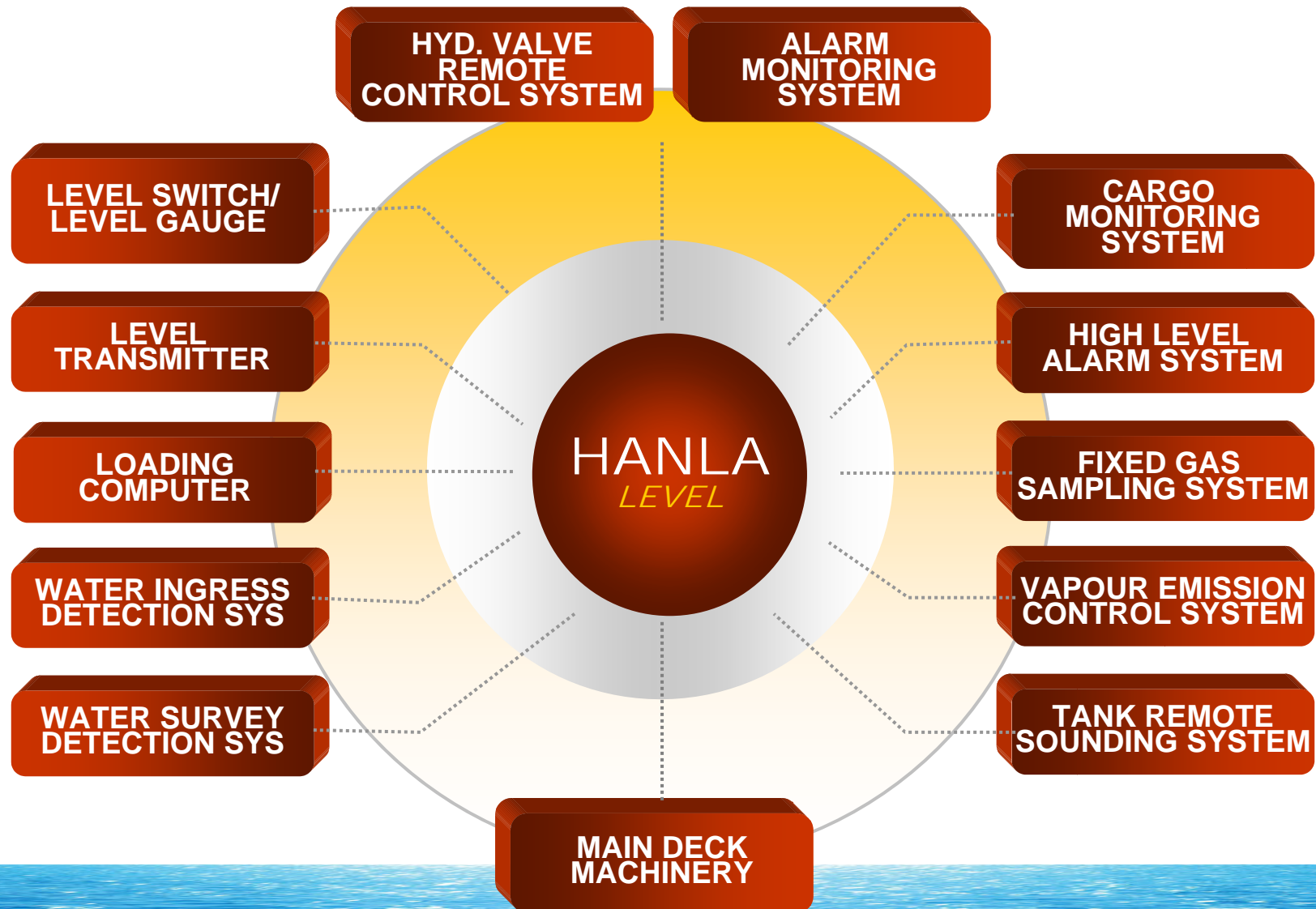
ALARM
MONITORING
SYSTEM

COMPUTE-
RIZING
CONTROL

DECKK
MACHINERY



■ TANK PACKAGE SOLUTION



Scope of Supply Category



VALVE REMOTE CONTROL SYSTEM
RADAR BEAM TYPE CARGO MONITORING SYSTEM
MAGNETIC FLOAT TYPE CARGO MONITORING SYSTEM
INDEPENDENT HIGH & OVERFILL ALARM SYSTEM
BALLAST TANK & DRAFT / ENGINE ROOM TANK REMOTE SOUNDING SYSTEM
FIXED GAS SAMPLING (DETECTION) SYSTEM (HC, OXYGEN)
VAPOUR EMISSION CONTROL SYSTEM (O2 ANALYZER)
LOADING COMPUTER
OIL DETECTOR PORTABLE GAS DETECTOR
DECK MACHINERY (WINCH, WINDLASS, STEERING GEAR)
LEVEL GAUGE, SWITCH, TRANSMITTER
ALARM MONITORING SYSTEM (AMS) (BY JOINING SAMSUNG)

SCOPES

Scope of Supply Category



VALVE REMOTE CONTROL SYSTEM
BALLAST TANK & DRAFT / ENGINE ROOM TANK REMOTE SOUNDING SYSTEM
LOADING COMPUTER
OIL DETECTOR
LEVEL GAUGE, SWITCH, TRANSMITTER
ALARM MONITORING SYSTEM (AMS) (BY JOINING SAMSUNG)
DECK MACHINERY (WINCH, WINDLASS, STEERING GEAR)

SCOPES

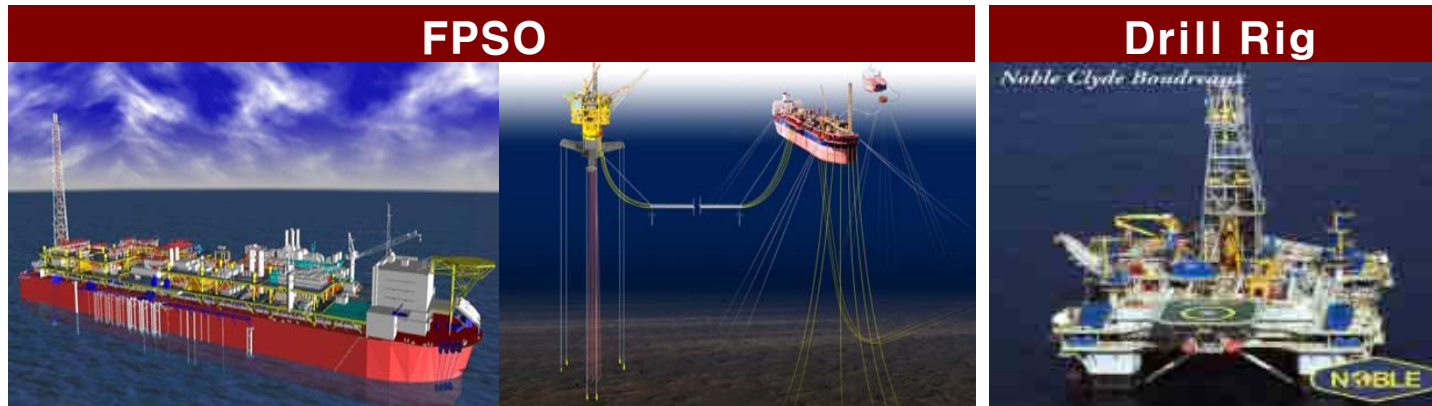
Scope of Supply Category



WATER INGRESS DETECTION (ALARM) SYSTEM
VALVE REMOTE CONTROL SYSTEM
BALLAST TANK & DRAFT / ENGINE ROOM TANK REMOTE SOUNDING SYSTEM
LOADING COMPUTER
OIL DETECTOR
LEVEL GAUGE, SWITCH, TRANSMITTER
DECK MACHINERY (WINCH, WINDLASS, STEERING GEAR)

SCOPES

Scope of Supply Category



VALVE REMOTE CONTROL SYSTEM
RADAR BEAM TYPE CARGO MONITORING SYSTEM
INDEPENDENT HIGH & OVERFILL ALARM SYSTEM
BALLAST TANK & DRAFT / ENGINE ROOM TANK REMOTE SOUNDING SYSTEM
FIXED GAS SAMPLING (DETECTION) SYSTEM (HC, OXYGEN)
LOADING COMPUTER
OIL DETECTOR PORTABLE GAS DETECTOR
DECK MACHINERY (WINCH, WINDLASS, STEERING GEAR)
LEVEL GAUGE, SWITCH, TRANSMITTER
ICC / ICS (BY JOINING SAMSUNG)
OIL WATER INTERFACE TRANSMITTER
ANALYZER / MUD DENSITY TRANSMITTER

SCOPES

Scope of Supply Category

Supply Vessel	Supply Vessel Anchor Handling	Tug Boat
---------------	----------------------------------	----------



Copyright © 2005 - www.majmarfa.com.uk

VALVE REMOTE CONTROL SYSTEM
RADAR BEAM TYPE CARGO MONITORING SYSTEM
BALLAST TANK & DRAFT / ENGINE ROOM TANK REMOTE SOUNDING SYSTEM
LEVEL GAUGE, SWITCH, TRANSMITTER
MUD DENSITY TRANSMITTER
DECK MACHINERY (WINCH, WINDLASS, STEERING GEAR)

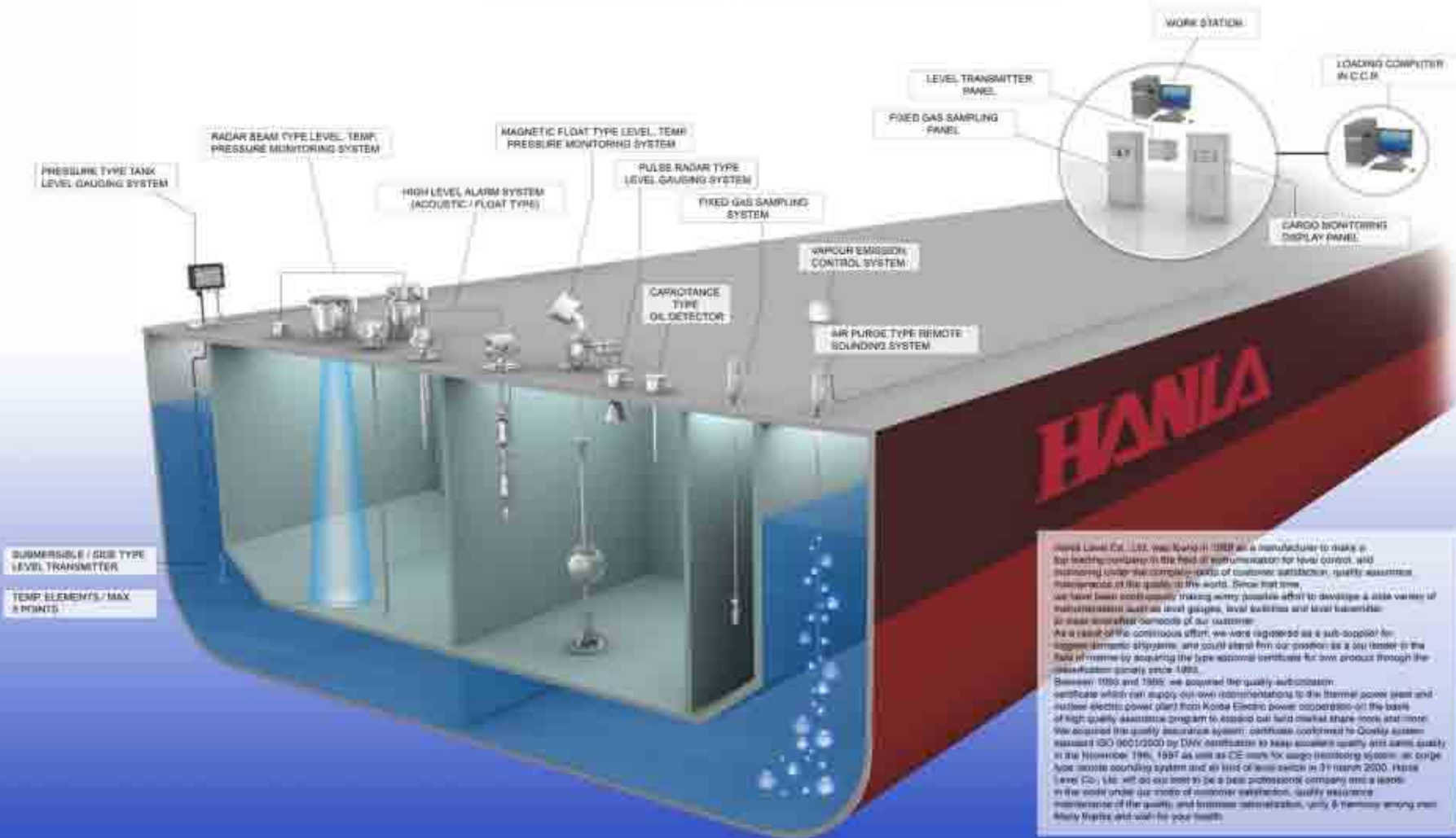
SCOPES

TANK PACKAGE SOLUTION



HANLA TANK MONITORING SYSTEM

CARGO MONITORING SYSTEM, BALLAST TANK / DRAFT LEVEL GAUGING SYSTEM, INDEPENDENT HIGH & OVERFILL ALARM SYSTEM, FIXED GAS SAMPLING SYSTEM
 OIL WATER INTERFACE LEVEL GAUGING SYSTEM, VAPOUR EMISSION CONTROL SYSTEM
 BULK CARRIER, OIL & CHEMICAL TANKER, LNG, LPG, FPSO, DRILL SHIP ETC.



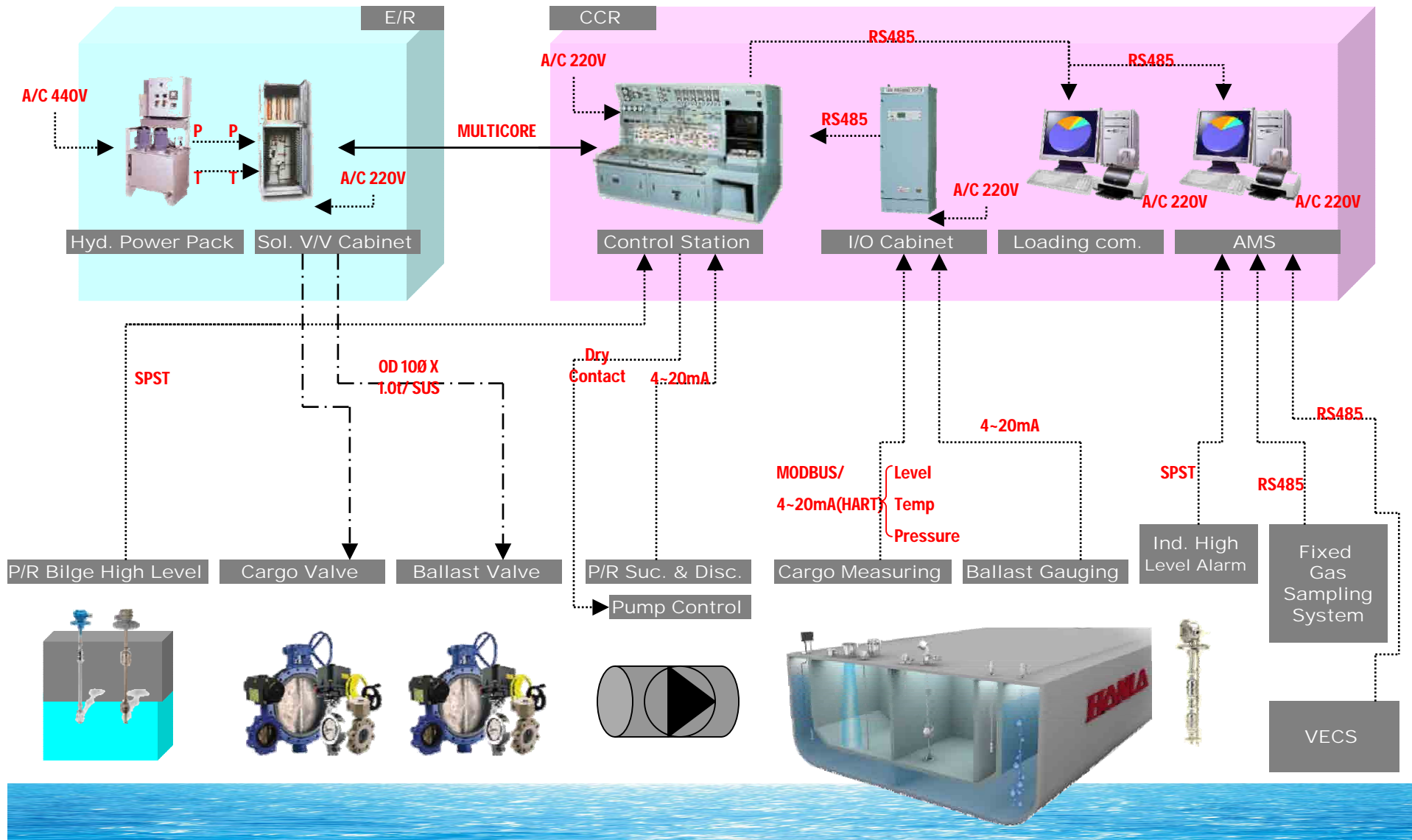
HANLA Level Co., Ltd. was founded in 1988 as a manufacturer to make a top leading company in the field of automation for level control, and increasing user's complete parts of customer satisfaction, quality assurance, maintenance of the quality in the world. Since that time, we have been continuously making every possible effort to develop a wide variety of maintenance control level gauges, level systems and level transmitter to meet ever-changing demands of our customers.

As a result of the continuous effort, we were registered as a sub-supplier for Japanese domestic shipyards, and could start from our position as a top leader in the field of marine by acquiring the type approval certificate for tank product through the classification society since 1993.

Between 1989 and 1995, we received the quality sub-contractor certificate which can supply our own sub-contractors to the thermal power plant and nuclear electric power plant from Koda Electric Power Corporation on the basis of high quality assurance program to expand our field market share more and more. We acquired the quality assurance system certificate conforming to Quality System Standard ISO 9001:2000 by DNV verification to keep excellent quality and same quality in the November 19th, 1997 as well as CE mark for usage monitoring system, air purge type remote soliding system and air level of level switch in 31 March 2000. HANLA Level Co., Ltd. will do our best to be a best professional company and a leader in the world under our motto of customer satisfaction, quality assurance, maintenance of the quality, and business internationalization, unity & harmony among our many friends and wish for your health.

TANK PACKAGE SOLUTION

Outline Diagram



■ PRODUCTS (TANK GAUGING SYS)

1



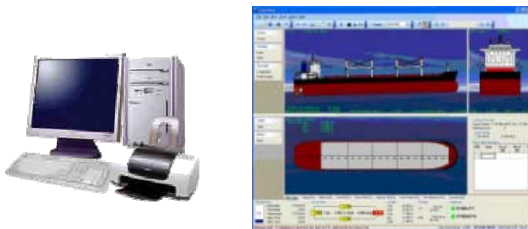
RADAR BEAM CARGO MEASURING SYSTEM

2

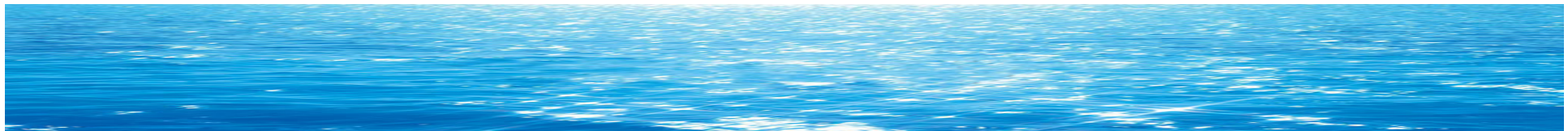


MAGNETIC FLOAT CARGO MEASURING SYSTEM/ LOADING COMPUTER


3





LOADING COMPUTER




■ PRODUCTS (TANK ALARM SYSTEM)

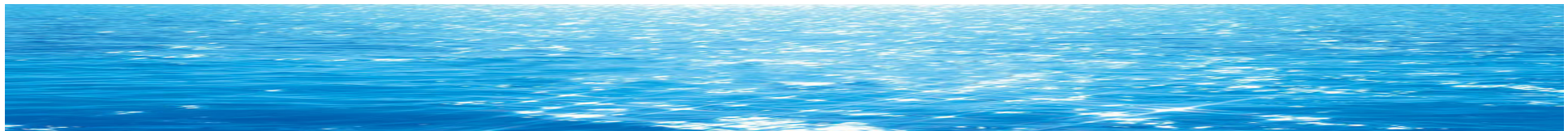
- 

1 INDEPENDENT HIGH & OVERFILL ALARM SYSTEM
- 

2 VAPOUR EMISSION CONTROL SYSTEM
- 

3 FIXED GAS SAMPLING SYSTEM
- 

4 WATER INGRESS(SURVEY) ALARM SYSTEM



■ PRODUCTS (REMOTE SOUNDING SYS)

1



AIR PURGE TYPE REMOTE SOUNDING SYSTEM (Electric/Pure pneumatic type)

2

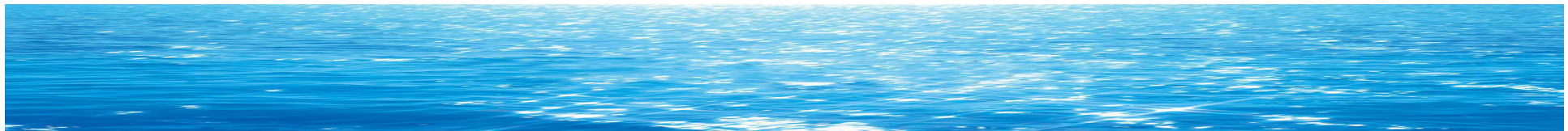


MICROPROCESSOR CONTROLLED REMOTE SOUNDING SYSTEM

3



ELECTRIC PRESSURE TANK GAUGING SYSTEM



■ PRODUCTS (LEVEL EQUIPMENTS)

1



LEVEL GAUGE

4



OIL DETECTOR

2



LEVEL SWITCH

5



**LEVEL
TRANSMITTER**

3

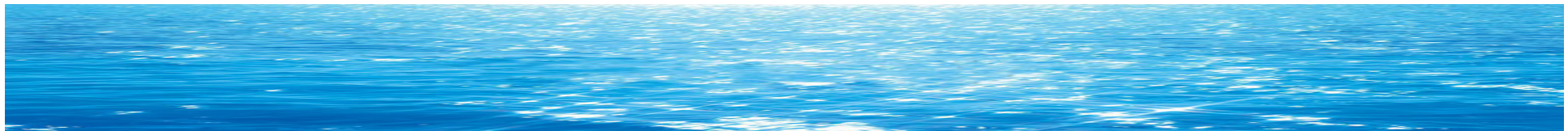


LEVEL SWITCH

6



**PRESSURE
LEVEL
TRANSMITTER**



■ PRODUCTS (VALVE REMOTE CONTROL)



1

ACTUATOR

2

SOLENOID V/V CABINET

3

HYD. POWER PACK UNIT

4

CONTROL STATION

COMPETITORS

- * Kongsberg/Norway
- * Saab Rosemount/Sweden
- * Nordicflow/Singapore
- * Shanghai Rongde/China
- Pleiger/German

■ PRODUCTS (VALVE REMOTE CONTROL)



ACTUATOR



✘ HYDRAULIC OPERATED ACTORATOR (HOA)

- ✘ Oil Pressure: 80 ~ 150bar
- ✘ CYLINDER OPERATING TYPE
- ✘ Oil Pressure: 80 ~ 150bar
- ✘ COMPONENTS FOR OPERATION
 - Hydraulic actuator with valve
 - Hydraulic power unit
 - Solenoid valve cabinet
 - Control consol or compute
 - Portable hand pump

■ PRODUCTS (VALVE REMOTE CONTROL)



SOLENOID V/V CABINET

SOLENOID VALVE CABINET

☞ SPECIFICATION

- Steel box
- Distributing board
- Solenoid valve
- Pressure switch or flow meter
- Pressure gauge
- Pressure filter
- Stop valve(P & R line)
- Non return check valve

■ PRODUCTS (VALVE REMOTE CONTROL)



HYD. POWER PACK UNIT



✎ HYDRAULIC POWER UNIT (HPU)

☞ SPECIFICATION

1 x oil tanker(150L,200L)

2 x motor(main and stand-by) 1.5kw, 2.2kw...

2 x pump(main and stand-by)2cc/u,3cc/u

2 x pressure switch for pump
start/stop(0~250bar)

2 x pressure for alarm(high pressure
and low pressure)0~160bar

1 x oil level switch(low level alarm and
low-low level pump disconnection)

1 x accumulator (10L,20L,30L)

1 x high pressure filter(0~250bar)

1 x return filter(10bar)

1 x reducing valve(0~250bar)

■ PRODUCTS (VALVE REMOTE CONTROL)



CONTROL STATION



▶ CONTROL STATION

☞ SPECIFICATION

- WORK STATION CONTROL
- OP/CL MANUAL CONTROL
- LOADING COMPUTER
- MIMIC BOARD

■ PRODUCTS (VALVE REMOTE CONTROL)



BUTTERFLY, GLOBE, BALL VALVES



VALVES

BUTTERFLY VALVE

- FOR CARGO, BALLAST, BILGE LINE etc.
- DOUBLE ECCENTRIC : CARGO
- CONCENTRIC : BALLAST, BILGE
- SEAT : NBR (Std.), VITON, TEFLON

GLOBE VALVE

- FOR BILGE, FUEL OIL LINE
- SEAT : METAL
- SDNR TYPE (FIXED, LOOSE CONE), REMOTE TYPE

BALL VALVE

- FOR GAS AND CHEMICAL

■ PRODUCTS (VALVE REMOTE CONTROL)



SYSTEM DIAGRAM



- PRODUCTS (MACHINERY PART)
 - Winch / Windlass / Steering Gear

Supply Vessel
For All Kinds Of Vessels



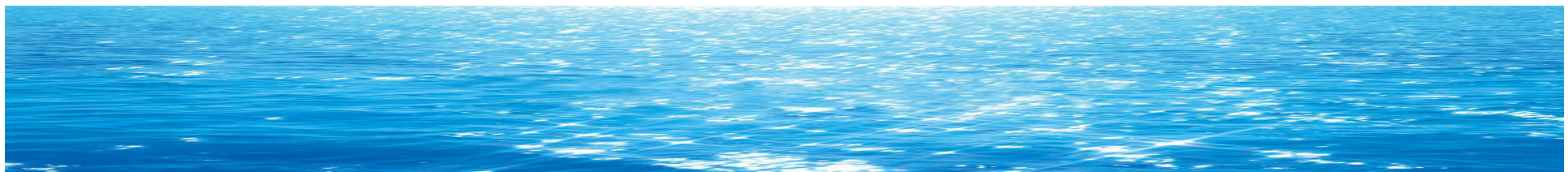
 **WINDLASS**



 **WINCH**



 **STEERING GEAR**



■ PRODUCTS (MACHINERY PART)

- EMERGENCY TOWING SYSTEM

Supply Vessel
For all Tankers over 20,000DWT



After Part Arr't

EMERGENCY TOWING SYSTEM

SWL : 1000KN / 2000KN

MBL : 2000KN / 4000KN



Forward Part Arr't

ESCORTING PULL BACK SYSTEM

SWL : 1000KN / 2000KN

MBL : 2000KN / 4000KN

SIGLE POINT MORRING (SPM)

SWL : 1000KN / 2000KN / 2500KN / 3500KN

MBL : 2000KN / 4000KN / 5000KN / 7000KN

CLASS APPROVED : ABS.BV.CCS.DNV.GL.KR.LRS.NK.RINA
















Global Network for HANLA(Sales/Service Engineering)



- For Sales & Service Engineering
- For Sales
- Hanla IMS



Global Network for HANLA(Sales/Service Engineering)

KOREA HANLA IMS CO., LTD TEL : + 82 51 601 3000 FAX : + 82 51 831 1850 E-mail : hanla@hanlaims.com		CHINA Donghyun Marine Equipment Co.,Ltd Tel : 021-64838186/64838977 Fax : 021-54488061 Email:donghyun@263.net		TAIWAN C. S. G. (Kaohsiung) TEL : + 88 6 7 533 5648 FAX : + 88 6 7 533 5649	
SINGAPORE RAYCONTROL TEL : + 65 65630544 E-mail : sales@raycontrol.com		SINGAPORE RAYCONTROL TEL : + 65 65630544 FAX : + 65 65600941		INDONESIA PT.Kwangshin Indonesia Tel:62-21-725-6512, Fax: 62-21-725-6552	
U.A.E. METRO-MAC TEL : + 971 4 341010 FAX : + 971 4 342248		INDIA Arkay Electronics & Marine Systems Pvt. Ltd. TEL : +91 22 2558 5881-2 FAX : +91 22 2558 5883		IRAN Shivasp Co. Ltd TEL : +98(21)22710200 FAX : +98(21)22734753	
FRANCE Enraf Marine System TEL : +33 248 237 918 E-mail : service.marine@honeywell.com		ITALY MAC.NAV.I. S.r.l. TEL : + 39 10 377 0376 FAX : + 39 10 376 0967 E-mail : ardea.degregori@macnavi.it		GREECE FRANMAN TEL : + 30 210 9532 350 FAX : + 30 210 9532 355 E-mail : nbequipment@franman.gr	
GERMANY CLAUS D. CHRISTOPHEL TEL : + 49 40 754 966 12 FAX : + 49 40 754 966 24 E-mail : claus-d.christophel@christophel.de		NORWAY Unitech Ship Service TEL : +47 355 603 00 E-mail kyj@uss.no		U.K. Emark Marine TEL : +441 243 375 383 E-mail : emark@dircon.co.uk	



Global Network for HANLA(Sales/Service Engineering)

<p>NETHERLANDS ●</p> <p>Inglasco</p> <p>TEL : +31 652576405</p> <p>E-mail jan@inglasco.nl</p>	<p>RUSSIA ○</p> <p>CIS</p> <p>TEL : + 70 95 241 16 99</p> <p>FAX : + 70 95 241 37 82</p> <p>E-mail : mjlelekov@e-comp.ru</p>	<p>CROATIA ○</p> <p>Maritimus Electronics</p> <p>TEL : +385 51 322 576</p> <p>E-mail : vedran@maritimus.hr</p>
<p>CYPRUS ○</p> <p>Nereus Maritime Systems Ltd</p> <p>TEL:+35725584141</p> <p>FAX : +357 25 584155</p> <p>E-Mail:info@nereusmaritimessystems.com</p>	<p>U.S.A. ●</p> <p>C.S. Controls, Inc.</p> <p>Tel : 714-974-5684</p> <p>Fax : 714-974-5685</p> <p>E-mail : Cscca98@aol.com</p>	<p>BRAZIL ○</p> <p>Autrotec</p> <p>TEL : + 55 21 24 21 68 25</p> <p>E-mail : raguirre@brfree.com.br</p>
<p>TURKEY ○</p> <p>Betex Engineering Co., Ltd</p> <p>TEL : +90 216 4462315</p> <p>FAX : +90 216 4462316</p> <p>E-Mail : betex@betex.com.tr</p>	<p>AUSTRALIA ○</p> <p>TECHNITEMP W.A.</p> <p>TEL : + 61 08 9359 1661</p> <p>FAX : + 61 08 9359 1660</p>	<p>NIGERIA ●</p> <p>Dalton-Jay Services Ltd</p> <p>TEL : +234 803 3136900</p> <p>E-Mail : dalton_procurement@yahoo.co.uk</p>

