



MARINE  
**MRL** ELEVATORS  
Machine-Room-Less

  
**HYUNDAI**  
ELEVATOR CO., LTD.

# HYUNDAI MARINE ELEVATORS

Occupying the largest share in the world marine elevators market, Hyundai Elevator provides tailored solutions through its world-class technology and experience.

Our solutions are ideal for harsh marine environments and come with full legal compliance. In addition, we have a wide range of world-class technologies in compliance with the requirements from world major Classifications including ABS, DNVGL, LR, BV, RS, KR, RINA and CCS.

## WHY HYUNDAI MARINE ELEVATOR?



### NO. 1

- Ranked 1st in market share in the Korean elevator market for 13 consecutive years. (As of the end of December, 19)
- Ranked 1st in market share in the global marine elevator market.

We have 76% market share in Korean shipyards, the largest ship market, and 65% in Chinese shipyards. (As of the end of July, 20)



### ALL IN ONE

It is thoroughly managed with an all-in-one system that is responsible for design, purchase, manufacturing and quality control in Korea. In particular, it maintains optimal performance of equipment even in a marine environment that has undergone strict self-quality certification tests of major safety parts directly connected to customer safety.



### GLOBAL NETWORK

Maintenance service promptly provided at major ports around the world through our global service network.



## REFERENCES

We have successfully delivered vertical transport solutions for a variety of cargo-vessel projects around the world. Below is a selection of our most recent references.

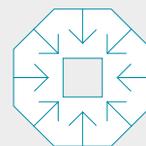
Vessel type	Hull No.	Shipyard	Owner
Container	DSME-H4302~12	Daewoo Shipbuilding & Marine Engineering	Maersk Line
RoPax	GSI-18121009/10	Guangzhou Shipyard International	DFDS
Shuttle tanker	HHI-H3114/15	Hyundai Heavy Industries	KNOT
LNG carrier	HHI-H3185~88 / HSHI-T8091~94	Hyundai Heavy Industries / Hyundai Samho Heavy Industries	JP Morgan, Korealine

MACHINE  
ROOM  
LESS



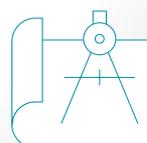
## EFFICIENCY

- Less Maintenance
- High Energy Efficiency



## COMPACT

- Less Size/Weight
- Less Machine Room



## PROVEN DESIGN

- More than 100  
Units of Reference/  
Ongoing Projects with  
Classification Approval





# DESIGNED FOR BEST PERFORMANCE

Hyundai elevator's all components comply with relevant Rules and Regulations, and are designed and manufactured to withstand the harsh environment condition at sea.



## EFFICIENT GEARLESS MACHINE

- Synchronous Traction Machine
- High Efficiency
- Compact Design
- Space Saving
- IP44
- Low Noise and Vibration



## ADVANCED CONTROL SYSTEM

- 140 Subdivided Error Codes For Easy & Quick Action
- Compact Size Control Panel
- Remote Trip/Reset Operation of Overspeed Governors at Control Panel
- Easy Maintenance by Hand Held Terminal



# SOLUTION TO MAINTAIN THE BEST SHIP

Hyundai elevator’s lifecycle approach can also be seen in our world-class global maintenance service, which keeps your elevators working reliably for its entire operational lifespan.



## MAINTENACE

- Global Service Availability by Official Service Agents at Major Ports around the World
- Quick and Precise Response via HQ Technical Supports
- Professional Engineers by HQ Training Program
- Long Term Spare Parts Availability



## SAFETY AND CERTIFICATIONS

- ISO 9001 Certification
- ISO 14001 Certification
- Approved for CE Marking in Gearless TM
- Full Compliance with EN81
- Full Compliance with Classification Society (ABS, DNVGL, LR, BV, RS, KR, RINA, CCS, Etc.)



ISO9001



ISO14001



CE

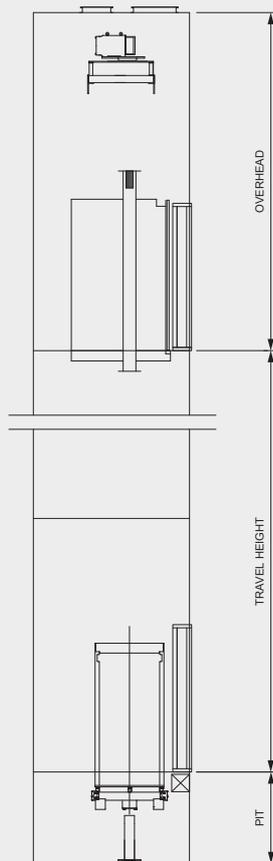
# LAYOUT & DIMENSIONS

## MRL STANDARD DIMENSIONS

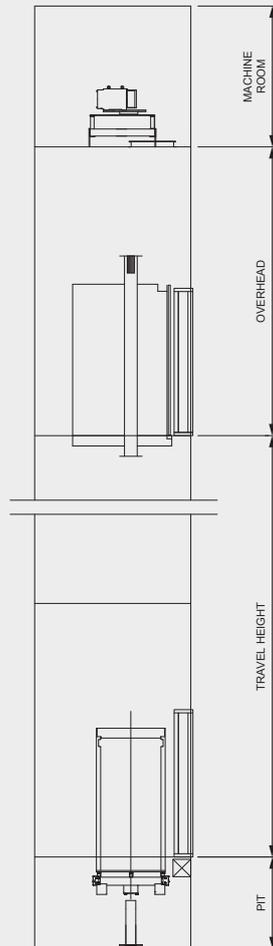
Load Capacity (Persons)	Speed (m/min)	Car Internal CW × CD(mm)	Trunk Dimension <sup>1)</sup>		
			A × B(mm)	Pit Height (mm)	Overhead Height (mm) <sup>2)</sup>
500 kg (6 Persons)	45 60	950 × 1300	2200 × 2200	1300	4100
750 kg (10 Persons)	45 60	1100 × 1600	2400 × 2500	1300	4100
1000 kg (13 Persons)	45 60	1100 × 2100	2400 × 3000	1300	4100

## MRL STANDARD LAYOUT

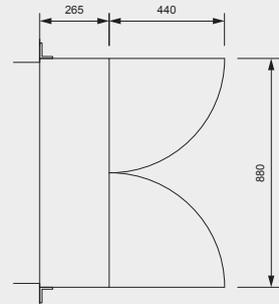
### ELEVATION



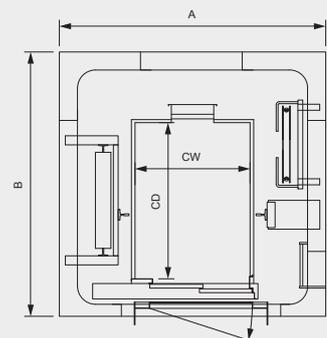
### ELEVATION <sup>4)</sup>



### CONTROL PANEL <sup>3)</sup>



### PLAN



Notes :

- 1) Trunk dimensions may be changed according to actual dimensions of deck cutting (opening), stiffeners, insulations and etc.
- 2) Overhead height may be changed according to actual Rules/Regulations.
- 3) Elevator control panel can be arranged in other electrical equipment room.
- 4) Elevator machine room surrounded by steel boundaries shall be considered when the machinery for elevators are located within stairway enclosures according to the Section 2.2.5.2, Regulation 9, Ch. II-2 of SOLAS.

# GLOBAL SERVICE NETWORK

We provide pinpoint, speedy services whenever necessary.  
Our global network enables prompt and effective responses to any request  
For maintenance at major ports around the globe.



## KOREA

### OCEAN ELEVATOR

P.I.C. : MR. KEVIN MOON  
TEL. : +82 2 2617 0643  
FAX. : +82 2 2619 5881  
E-MAIL: ocean@ocean-elevator.com  
kymoon@ocean-elevator.com  
jnkim@ocean-elevator.com

## JAPAN

### NIPPON LIFTS ENGINEERING INC.

P.I.C. : MR. DAISUKE ITOH  
TEL. : +81 45 478 1790  
FAX. : +81 45 478 1792  
E-MAIL: daisuke.itoh@nle-jpn.co.jp  
marine@nle-jpn.co.jp

## SINGAPORE

### HANKOOK ENGINEERING PTE LTD.

P.I.C. : MR. DANIEL KIM & MR. Y. X. LI  
TEL. : +65 6295 4787  
FAX. : +65 6295 4806  
E-MAIL: hkengr@singnet.com.sg

## CHINA

### SHANGHAI-HYUNDAI ELEVATOR CO., LTD.

P.I.C. : MR. STEVEN KIM  
TEL. : +86 21 5435 6195  
+86 18621736960  
E-MAIL: jinl0573@hdel.com.cn  
hyundai\_sh@yeah.net

### HD-GLOBAL (HK) ENGINEERING SERVICES LTD. – HONGKONG & CHINA

P.I.C. : MR. S. C. KIM  
TEL. : +852 6325 9038 (HONGKONG)  
+86 755 6138 8980 (CHINA)  
+86 755 2585 5903 (CHINA)  
FAX. : +86 755 2585 5496 (CHINA)  
E-MAIL: hyundaisz@naver.com  
hyundaisz2015@vip.163.com  
hyundai\_global@yahoo.com

### SHANGHAI DONGHYUN ENGINEERING CO., LTD

P.I.C. : MS. SARA ZHU  
TEL. : +86 21 64838977  
E-MAIL: donghyun\_spme@163.com

## EUROPE

### INES MARINE – BELGIUM & SPAIN

P.I.C. : MR. ROBERT TILLEY & YAN-NICK TILLEY  
TEL. : +32 52 408 300  
E-MAIL: service@ines-europe.com

### PETRC ELEVATOR – CROATIA, ITALY & MALTA

P.I.C. : MR. DAVID PETRC  
TEL. : +385 51 641 190 (CROATIA)  
+356 2144 6726 (MALTA)  
FAX. : +385 51 643 406 (CROATIA)  
+356 2144 6928 (MALTA)  
E-MAIL: david.petrc@petrc-elevator.hr

## U.A.E.

### ARABIAN ELEVATOR & ENGINEERING CO. LLC.

P.I.C. : MR. IZHAR ALI  
TEL. : +971 6 5739920  
E-MAIL: aeec@emirates.net.ae

## AMERICA

### DELAWARE ELEVATOR INC. – USA

P.I.C. : MR. ED GRAFF  
TEL. : +1 410 749 3489 (EXT.1052)  
E-MAIL: edgraff@delawareelevator.com

### HYUNDAI ELEVADORES DO BRASIL, LTDA. – BRAZIL

P.I.C. : MR. S.H. UM  
TEL. : +55 11 5070 4141  
E-MAIL: sh.um@hdel.com.br

## RUSSIA

### COMPLEX SERVICE ENGINEERING LLC.

P.I.C. : MR. SERGEY YAKIMENKO  
TEL. : +7 499 110 13 35  
E-MAIL: info@cs-engr.ru

## AUSTRALIA & NEW ZEALAND

### AUSTRALSIA ELEVATORS & ENGINEERING CO. PTY. LTD.

P.I.C. : MR. SYED TAHA JAMIL  
TEL. : +61- 404-613-301  
E-MAIL: info@aeec.net.au

## General Requirement

For quotations,  
we require the following information

01. Shipyard
02. Hull No.
03. Flag
04. Classification and certification
05. Capacity
06. Speed
07. Traveling height
08. Number of stops
09. Type of landing door
10. Location of machine room
11. Dimensions of elevator trunk
12. Power supply
13. Any other special features which may be required
14. Delivery time



Approved for CE Marking for all areas of elevator, an industry first in Korea



Accredited with KC (Korea Certification) for elevator safety



LABTEST CoC (UL 1004-1 Edition 2, CSA C22.2 No 100-14 Ed. 7)



Accredited with ISO 9001, an industry first in Korea



Accredited with ISO 14001, an industry first in Korea



Accredited with ISO 45001 Certification

## HYUNDAI ELEVATOR CO., LTD.

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