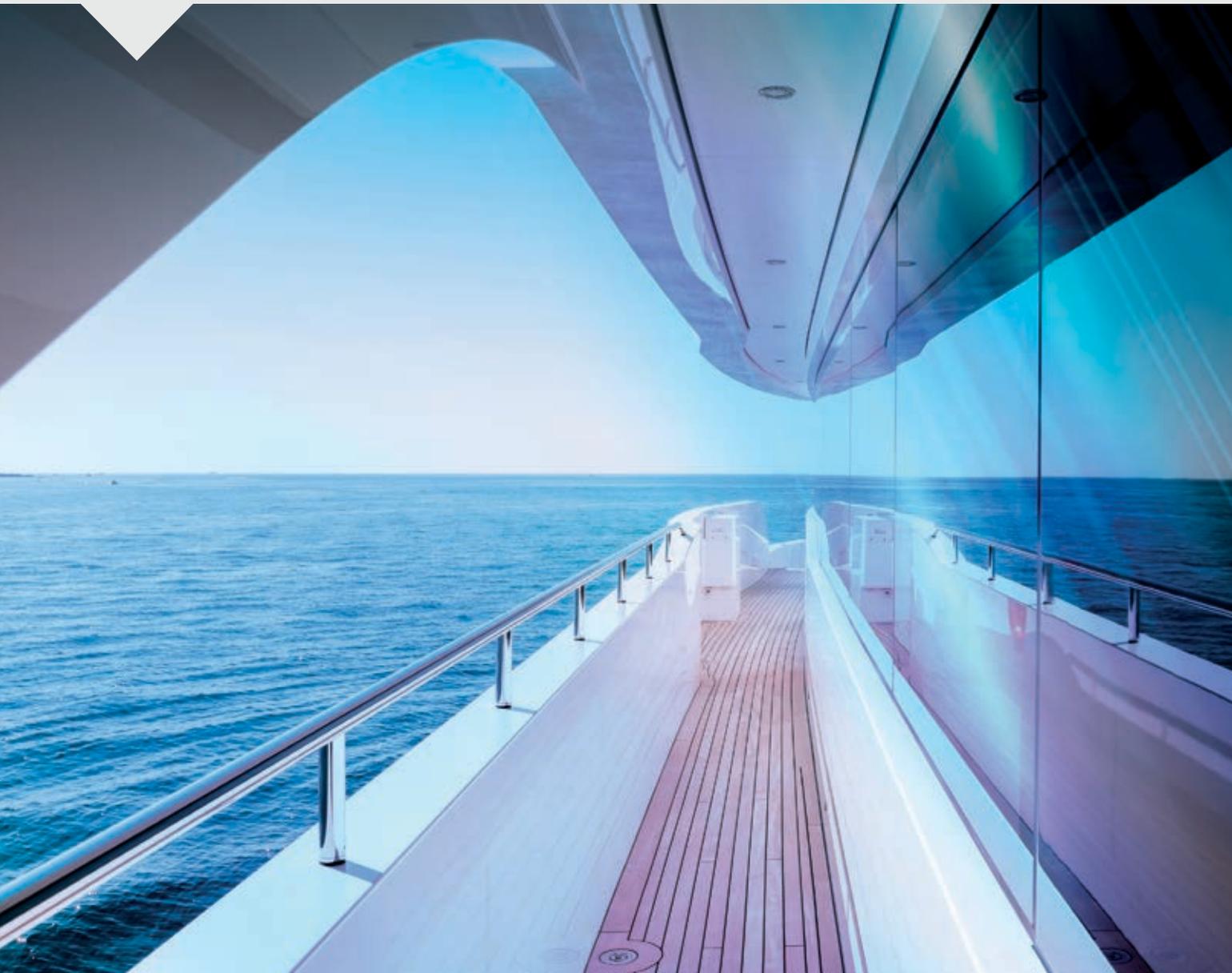


# KLEEMANN

## Marine elevators



# A world of motion where everything is possible

Since day one, back in 1983, our core aim has been clear. To create, together with our partners, a better mobility experience for people, through elevators that excel in safety, technology, innovation, efficiency and aesthetics. Today **KLEEMANN is amongst the most important elevators manufacturers in European and global markets**, with products and applications that range from residential and commercial elevators systems for persons or freight, to escalators, moving walks, accessibility solutions, marine elevators and elevators components.



# More than just elevators

Think of life as a powerful force for evolution. Elevators not only move people and freight to the next floor. They are actually moving life, taking part in all its social and economic aspects.

Life-space mobility has transformed, and moving with ease and safety has become more important than ever.

KLEEMANN products are the yield of distilled experience and compact knowledge of how people move and interact. Going beyond nuts and bolts and in the era of digital transformation and sustainability, KLEEMANN elevators are spaces that merge the physical aspect of life with the digital factor. Contemporary solutions that serve and facilitate current life and lead it to the future.



## Certified Quality

The high and consistent quality of KLEEMANN production processes, products and services is a non-negotiable commitment. At KLEEMANN, we implement a complete Quality Assurance System that meets all safety and quality standards and exceeds typical requirements. We apply more than 80 internal procedures and comply with:

ISO 9001: 2015  
Quality Management System

ISO 45001: 2018  
Occupational Health and Safety Management System

2014/33/EU  
Lift Directive, Annex XI, Module H1

EN 1090-1: 2009 + A1: 2011  
Steel and Aluminum Structure (sets)

ISO 14001: 2015  
Environmental Management System

ISO 50001:2018  
Energy Management System

ISO 10002: 2018  
Quality Management - Customer Satisfaction

ISO 14006: 2020  
Eco Design Standard

ISO 14064-1:2018  
Greenhouse Gases Verification Statement

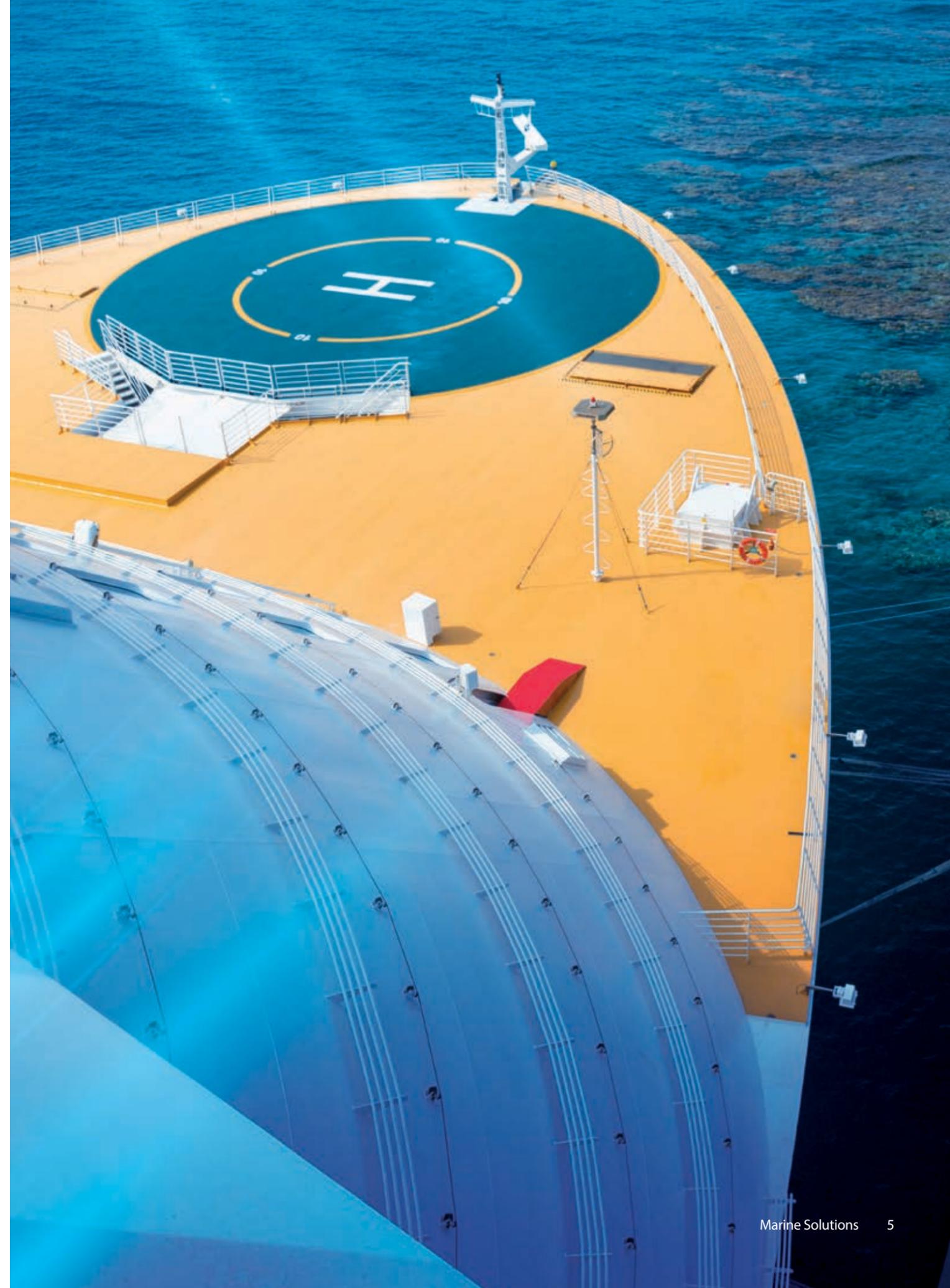
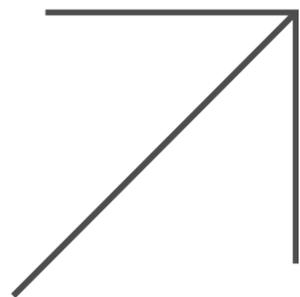


# Marine Solutions

KLEEMANN offers a range of marine solutions for the vertical transportation of passengers and goods in private and commercial cruise ships, luxury yachts, ferries, cargo ships and offshore rigs.

Whether you require durable and reliable installations for the movement of heavy-duty freight in harsh environments, or you seek the integration of sheer luxury and dependable functionality, KLEEMANN will design and create the ideal means of vertical travel for your marine project.

Choose from passenger and service elevators, freight elevators, escalators, green lifts offering energy savings of 60% or assemblies and components for elevator's modernization, all designed and installed according to your needs.



# International standards

KLEEMANN elevators for passenger and cargo vessels are designed according to international standards and meet the requirements of the high demanding sea environment.

## Advantages

### Outstanding ride quality

KLEEMANN Products were designed to deliver premium quality and passenger comfort. Featuring low levels of sound and vibration, they fulfil even the most demanding specifications.

### Safety

Feel safe and secure with the guarantee of complete passenger safety.

### Ease of installation

Designed for ease of installation and use, reliability and spatial efficiency.

### Eco-friendly

Regeneration systems are available to provide exceptional ride quality whilst reducing energy by up to 60%.

## How to

For more information contact [marine@kleemannlifts.com](mailto:marine@kleemannlifts.com)

Proud member of



# KLEEMANN After Sales Service

To ensure that designing, ordering, receiving and maintaining products is as stress-free and effortless as possible, KLEEMANN provides dedicated service teams that offer additional **support and guidance at every stage.**

- 24/7 support in 9 languages
- Detailed technical manuals & illustrations
- Lift Tester app to test performance on site
- KLEEMANN Live system
- KLEEMANN E-shop for 24/7 spare parts orders
- Network of local spare parts warehouses on strategic map locations
- Quick & efficient delivery system
- Field visit available upon request
- Service team available to support 1<sup>st</sup> KLEEMANN installation on site
- Troubleshooting webinars

## Global service network

KLEEMANN has a global service network and covers technical support to all major ports. China, United Arab Emirates, Netherlands, Germany, Saudi Arabia, United Kingdom, South Africa, Australia are few of the 100 countries where you can find 24/7 service for KLEEMANN products.

# KLEEMANN Design

**Design is for people.** Every project KLEEMANN undertakes, is an opportunity to provide solutions of aesthetic excellence, covering all engineering prerequisites, adapting to regulations and taking the best out of any apparent restriction.

## Creative power

Design has to integrate reality, foresee tomorrow and create an elevated user experience. Rather than thinking of an elevator as a box that moves, we see it as an active social space in a building, that is used and lived by people.

Industrial designer Andreas Zapatinas joined the creative forces of KLEEMANN in 2007 and new technical and aesthetic solutions have been explored. Since then, the experienced KLEEMANN Design Team has build on these fundamental ideas taking KLEEMANN lifts to the next level.

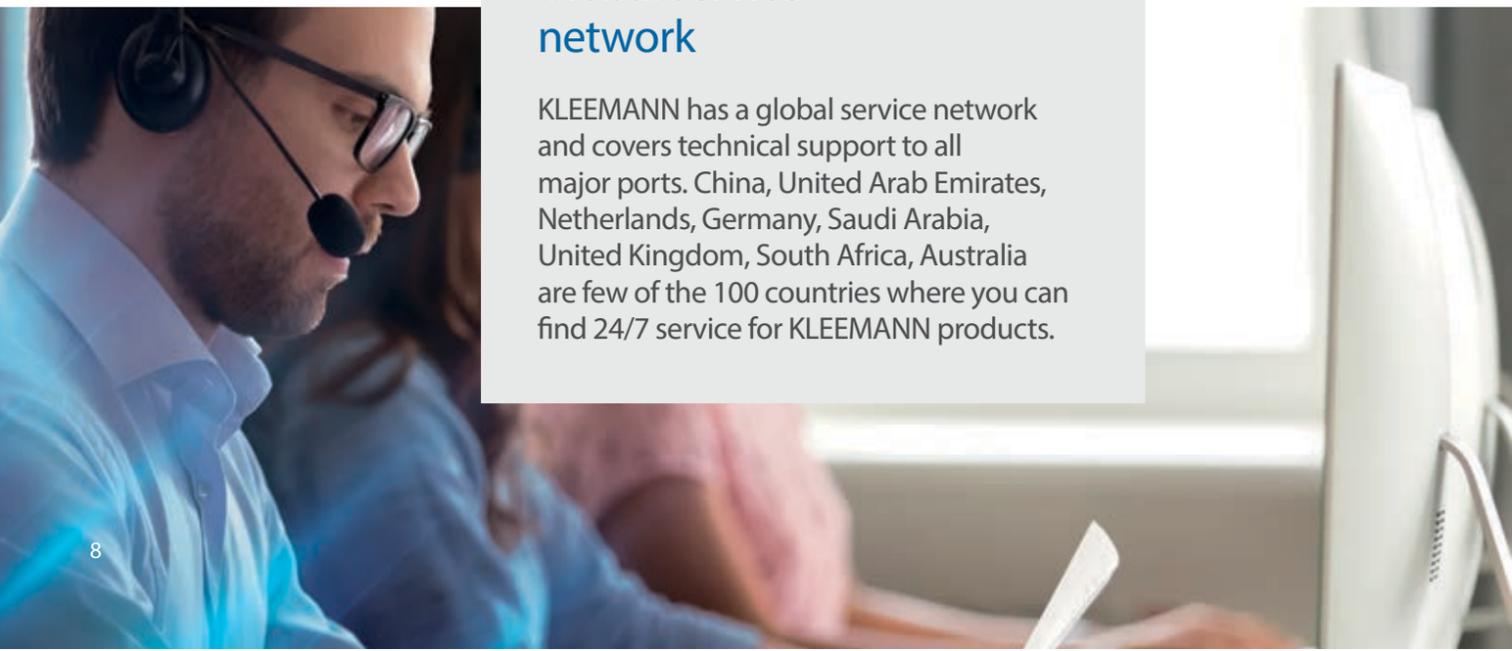
## How to

Contact our Design Team and discover more about our custom services and numerous creative options to realize your vision at [design@kleemannlifts.com](mailto:design@kleemannlifts.com)

## KLEEMANN Design Services

A special Design Team serves as the creative force behind the development of lifts for any challenging project. Our designers combine solution-oriented design with a service-driven approach, delivering:

- High quality virtual proposals
- Digital animation of your project
- Architectural design assistance directly with you
- Architectural assistance to determine materials
- On site visit





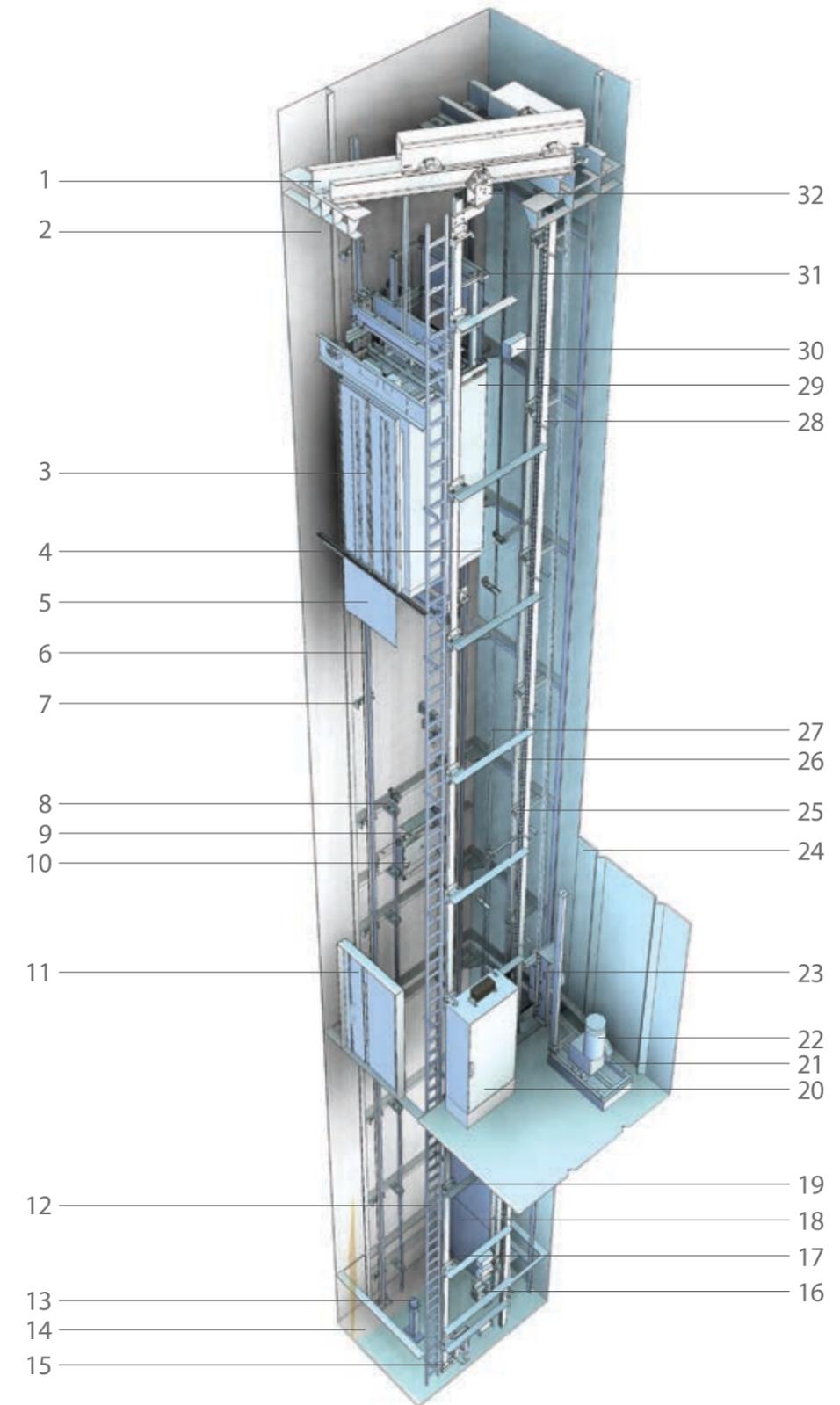
# Marine elevators



# Structure & components

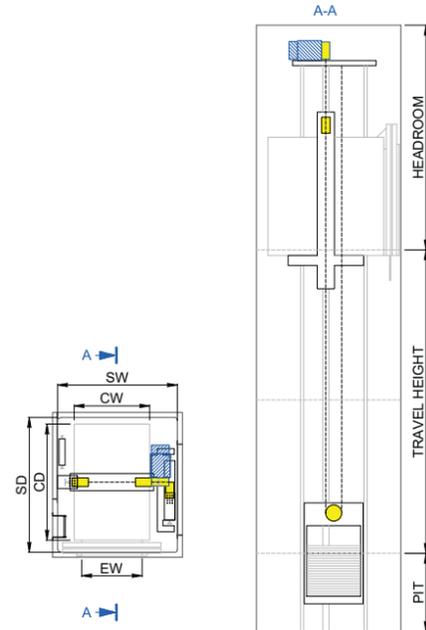
## Parts index

1 Diverting Pulley Space	9 Travelling Cable Trolley	17 Counterweight Buffer	25 Counterweight Guide Rail Bracket
2 Elevator Trunk	10 Travelling Cable Guide Rail	18 Counterweight Protection	26 Counterweight Guide Rail
3 Car Doors	11 Landing Door	19 Counterweight	27 Wire Ropes
4 Car Frame	12 Trunk Ladder	20 Controller Cabinet	28 Metal Cable Trunk
5 Car Apron	13 Car Buffer	21 Machine Base	29 Cabin
6 Car Guide rails	14 Pit	22 Traction machine	30 Cable Junction Box
7 Car Guide Rail Bracket	15 Car Tension Sheave	23 Diverting Pulleys	31 Car Balustrade
8 Travelling Cable Guide Rail Bracket	16 Counterweight Tension Sheave	24 Machine Room	32 Car Overspeed Governor



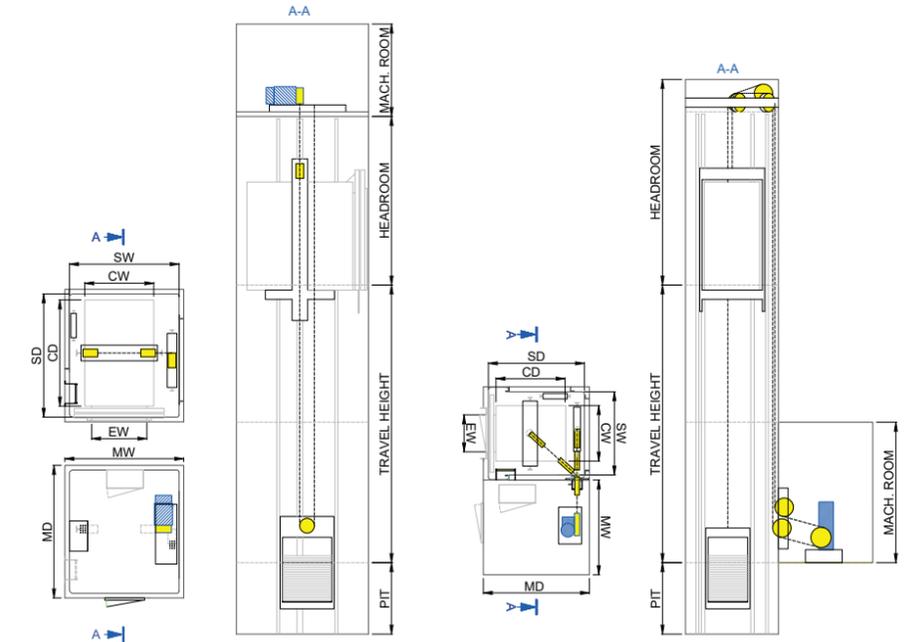
# Machine roomless solution (MRL)

Trunk and machine room plan view



# Machine room solutions

Trunk and machine room plan view



## Standard dimensions Passenger elevator (MR/MRL)

Load Capacity (Persons)	Speed	Entrance Dimensions (mm)	Internal Car Dimensions (mm)	Trunk Dimensions (mm) <sup>1</sup>	Pit Depth	Headroom Height <sup>2</sup>
		EWxEH	CWxCD	SWxSD		
630 kg (8 persons)	1m/s	900x2000	1100x1400	1800x2000	950	3900
	1.6m/s				1250	4050
750 kg (10 persons)	1m/s	900x2000	1200x1500	1900x2050	950	3900
	1.6m/s				1250	4050
1000 kg (14 persons)	1m/s	900x2000	1100x2100	1800x2500	950	3900
	1.6m/s				1250	4050
1600 kg (22 persons)	1m/s	1200x2000	1500x2300	2400x2700	1200	3900
	1.6m/s				1300	4050
2000 kg (27 persons)	1m/s	1200x2000	1600x2500	2500x2900	1200	3900
	1.6m/s				1300	4050
2500 kg (33 persons)	1m/s	1200x2000	1800x2700	2700x3100	1200	3900
	1.6m/s				1300	4050

## Standard dimensions Crew elevator (MR-Machine room beside trunk)

Load Capacity (Persons)	Speed	Entrance Dimensions (mm)	Internal Car Dimensions (mm)	Trunk Dimensions (mm) <sup>1</sup>	Pit Depth	Headroom Height <sup>2</sup>
		EWxEH	CWxCD	SWxSD		
300 kg (4 persons)	1m/s	800x2000	950x1100	1800x1800	1200	4500
500 kg (6 persons)	1m/s	800x2000	950x1300	1800x1850	1200	4500
750 kg (10 persons)	1m/s	800x2000	1200x1500	1800x2100	1200	4500

**Notes**

1. Trunk dimensions do not include the deck cutting structure, stiffener, insulation etc (Clear trunk dimensions).
2. The Headroom height dimensions apply for Internal Cabin height 2100mm.
3. Please contact KLEEMANN for any other specifications



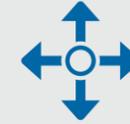
## KLEEMANN Live



KLEEMANN Live is an IoT system that collects, transmits, analyzes data and provides insights for elevators in real time. It keeps you linked 24/7 so you can have access to the elevator's status remotely any time, offering peace of mind to customers.

<p>SAVE TIME &amp; MONEY</p>	<p>CONTROL REMOTELY &amp; LIVE FROM ANY DEVICE</p>	<p>ALWAYS ALERT &amp; FORWARD PEACE OF MIND FOR YOUR CUSTOMERS</p>	<p>GAIN KNOWLEDGE GROW YOUR BUSINESS</p>
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## Destination Control System



The Destination Control System increases efficiency in elevator operation and exceedingly reduces waiting times in commercial vessels with high traffic density.

### Advantages

- Passenger comfort
- Energy saving / Cost reduction
- Flexible configuration
- High efficiency and safety

### How to

Find out everything about DCS at



## Eco-friendly lifts



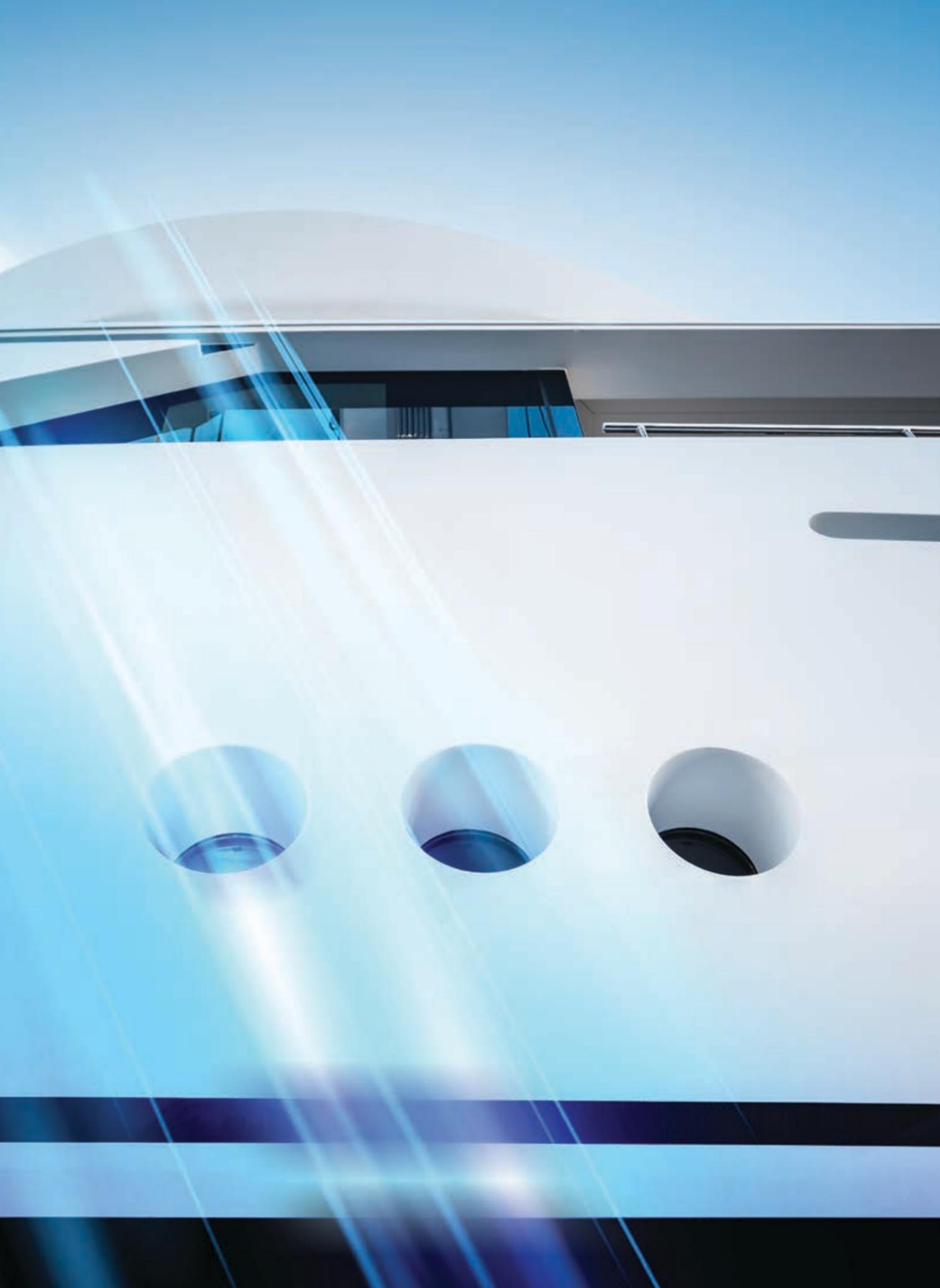
KLEEMANN believes in sustainable development and actively safeguards the right of future generations to inherit a safe, healthy and prosperous environment. Leveraging on innovative methods from engineering to production, KLEEMANN provides Eco-friendly lifts that feature a range of eco-friendly options.

<p>REGENERATION OF "CLEAN ENERGY"</p> <p>Regenerative power through integrated components (Regeneration Drive)</p>	<p>REDUCTION OF OPERATING COSTS</p> <p>Standby Mode function and LED lighting for greater energy saving</p>	<p>REDUCTION OF CO<sub>2</sub> EMISSIONS</p> <p>Contribution to reduction of CO<sub>2</sub> emissions makes the elevator more environment friendly</p>	<p>EFFICIENCY IN POWER SUPPLY</p> <p>All KLEEMANN traction lifts feature VVVF drive, regulating power supply for energy efficient operation</p>
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# Marine elevators

## Design options





## L330

The L330 is a cost-effective solution that offers a wide range of colors to create a passenger experience that complements the aesthetic of any marine elevator.

**Wall** Paint Pale Code  
**Floor** Rubber 6801  
**Handrail** K3  
**Ceiling** O55



## T120

The exclusive design of the T120 cabin offers passenger comfort and style. The design seamlessly fuses contemporary and futuristic elements to deliver a warm and inviting space, ideal for residential uses, home solutions and hotels.

**Wall** Steel like Oceanic Blue  
**Floor** Vinyl Light Cement  
**Handrail** K2  
**Ceiling** O55





## T310

Featuring unique design that creates a feeling of space through inspiring, vivid colours and a curved ceiling and walls, the passenger experiences a sense of freedom during each and every ride, while on board.

**Wall** Paint White Utopia  
**Floor** Artificial Granite  
Regal White  
**Handrail** K2  
**Ceiling** OLP1 Led Panel



Designed by  
Andreas  
Zapatinas



## T710

The T710 cabin fuses futuristic design with luxury to offer a truly exceptional passenger experience. The pioneering design, which features smooth lines and a curved ceiling and walls, welcomes the passenger to next-generation lift travel. The stylishly sleek cabin is the ideal choice for private residences, commercial buildings and hotels.

**Wall** Paint Geoform  
**Floor** Rubber 6727  
**Handrail** K2  
**Ceiling** O7



Designed by  
Andreas  
Zapatinas



Design options  
Marine  
passenger elevators



## Panoramic cabins

KLEEMANN fully customizable panoramic cabins are the ideal solution for large cruise ships, elevating the style of the interiors and creating a unique atmosphere for passengers on board.

### Cabin options

- Mushroom Panoramic
- Polygonal Panoramic
- Round Panoramic
- Square Panoramic





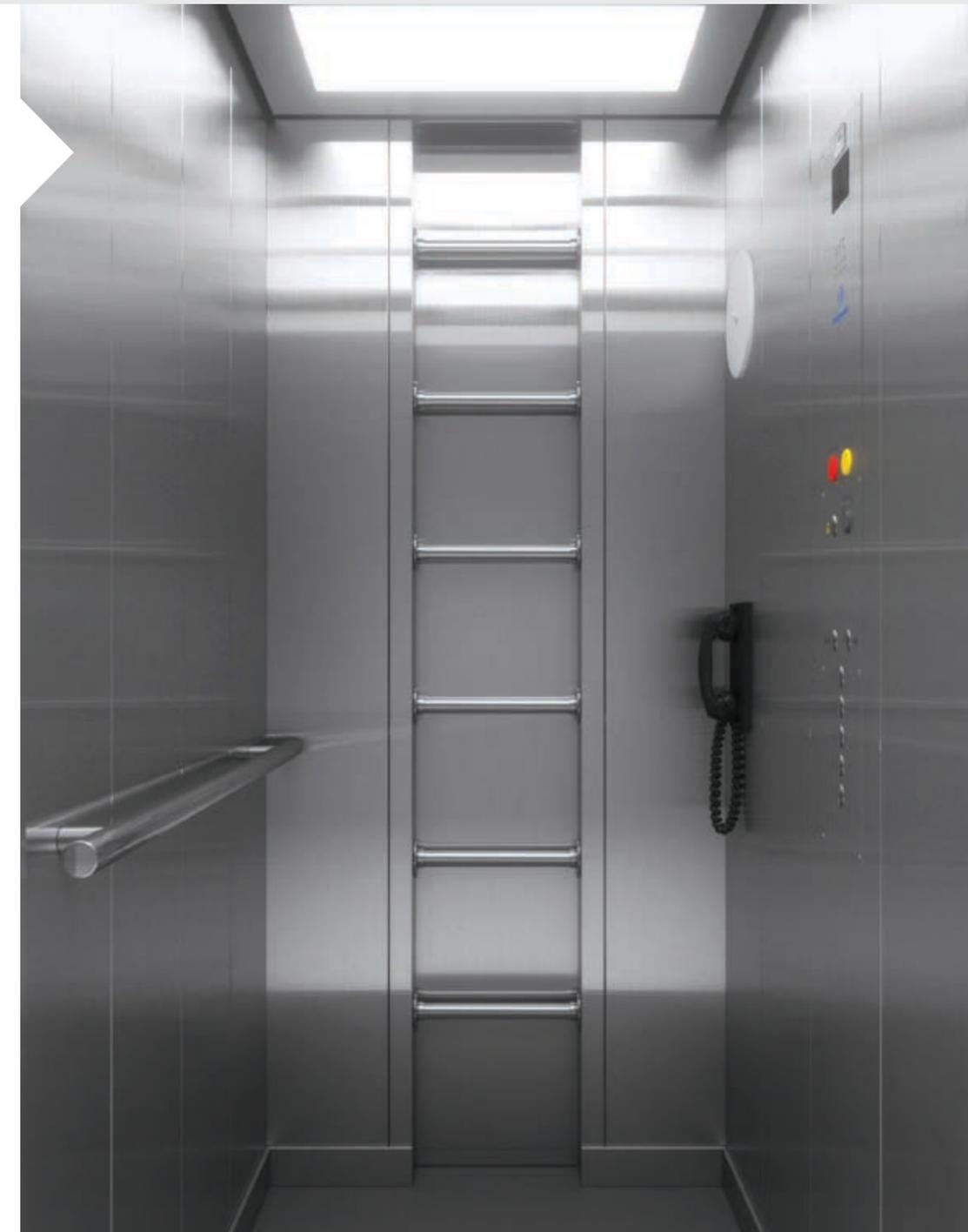
Design options  
Marine crew & goods  
elevators



## L310

The L310 cabin combines maximum durability and high operating reliability. Built according to standards for marine crew & goods cabins, it offers strength in simple and powerful lines. It is the ideal choice for all vessels that require an elegant yet built-to-last solution.

**Wall** Stainless steel Satin  
**Floor** Rubber 6768  
**Handrail** K2  
**Ceiling** O55





# Escalators



# Escalators

Varied solutions with custom-made design that offer exceptional ride quality, safety and energy efficiency on board.



## Technical specifications



Escalator Model	KEC Commercial	KEH Heavy Duty
Working hours (per day)	16-20	20-24
Capacity / hour (Theoretical value according to EN115-1:2017, Annex H)	Up to 6000 passengers	Up to 7300 passengers
Inclination	30° / 35°	30° / 35°
Step Width (mm)	600 / 800 / 1000	600 / 800 / 1000
Operating Speed (m/s)	0,5	0,5 or 0,65
Vertical rise (m)	2-7,5	2-35
Motor type	AC1 or VVVF	AC1 or VVVF
Installation	Indoor, outdoor, marine	Indoor, outdoor, marine

## Product description & features

KLEEMANN offers unique, tailor-made design services for commercial or heavy-duty escalators with a wide range of options and customized solutions for all marine projects.

## Outstanding ride quality

Designed to ensure both high quality construction and exceptional ride comfort. Low noise levels and minimal vibrations provide a smooth and comfortable passenger experience that will meet even the strictest requirements.

## Eco-friendly

Regeneration system to provide excellent ride quality while reducing energy usage by up to 60%. Many of the products' parts recyclable (steps, brush profile, glass panel clamps, etc).



## Marine project references



# Selected projects

Whatever the project, KLEEMANN's expertise and experience ensures tailored design options and flexible installation solutions will enhance both the operational functions and the unique environment of your specific vessel.

## CAT D rigs



Oil-rig info	Songa Offshore, Norway
KLEEMANN info	4 goods-passenger elevators, 10tons

## Maran Hermes oil tanker



Ship info	Maran Gas, Greece
Length	274 mtrs
Width	48 mtrs
Speed	7 knots
KLEEMANN info	1 crew elevators

## F/B Elyros



Ship info	ANEK Lines, Greece
Length	192 mtrs
Width	27 mtrs
Speed	24 knots
Passengers	1874
KLEEMANN info	3 passenger elevators

## Project CZAR



Ship info	Private Cruise
Length	120 mtrs
Width	17 mtrs
Speed	18 knots
Passengers	54
KLEEMANN info	5 passenger elevators

## More references

Vessel name	Segment	Shipyard	Ship owner	Units	Type
<a href="#">Huarui Dragon</a>	Semi-submersible salvage vessel	CMHI	Guangzhou Salvage Bureau of the Ministry of Transport	2	Passenger/Service Elevator
<a href="#">Emerald Azzurra</a>	MY	Halong Shipbuilding Emerald Sakara	Emerald Waterways	3	Passenger and Service Elevator
<a href="#">O'PARI</a>	MY	Golden Yacht	Golden Yacht	2	Passenger and Service Elevator
<a href="#">H486</a>	QU PLATFORM	CIMC Raffles	BP Tortue	1	Passenger Elevator
<a href="#">N999</a>	FPSO	Cosco Qidong	BP Tortue	2	Passenger and Goods Elevator
<a href="#">Maran Helios</a>	Oil Tanker	DMHI	Maran Gas	1	Crew Elevator
<a href="#">Heilhorn</a>	Ferry	Sefine Shipyard	Torghatten Trafikkselskap AS	1	Passenger Elevator
<a href="#">Smyrna</a>	Ferry	PPA Shipyard	Levante Ferries	1	Escalator
<a href="#">Golden Express</a>	Ferry	PPA Shipyard	Golden Fast Ferries	1	Passenger Elevator
<a href="#">Greg Mortimer</a>	Expedition Cruiser	CMHI	Aurora Expeditions	2	Passenger Elevator, Service Elevator
<a href="#">Fior di Levante</a>	Ferry	COSCO	Levante Ferries	3	Passenger Elevator, Escalator

[www.kleemannlifts.com](http://www.kleemannlifts.com)

KLEEMANN has a worldwide presence in over 100 countries with local presence in key market points. Constantly monitoring the global market trends, the company continues to innovate, grow, develop, and improve while consistently remaining in tune with its global character.



**KLEEMANN**  
Your 1<sup>st</sup> Choice in Lifts

KLEEMANN HELLAS SA  
Kilkis Industrial Area  
P.O. BOX 25, Kilkis, 611 00 - Greece  
G.E.M.I. 14486435000

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