# **W Line SLS**



One solution to fit all your needs. An innovative and functional passenger elevator for residential and commercial buildings.



## The Common Choice of The World is Wittur!

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United States of

**Argentina** 

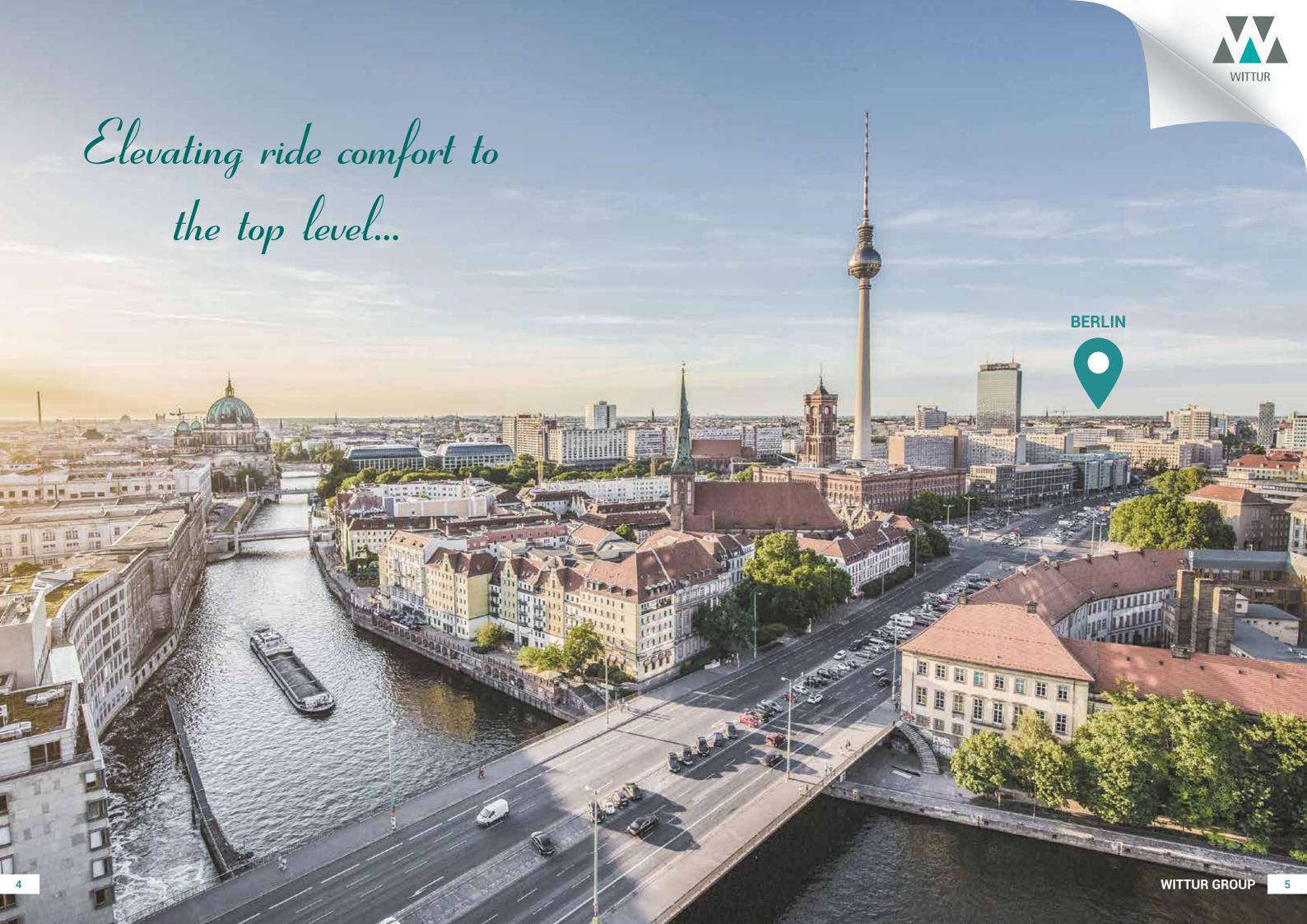
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Australia

Employees	4800
Manufacturing	16
Development Centers	7
Sales Offices	50+
Registered Patents	500+

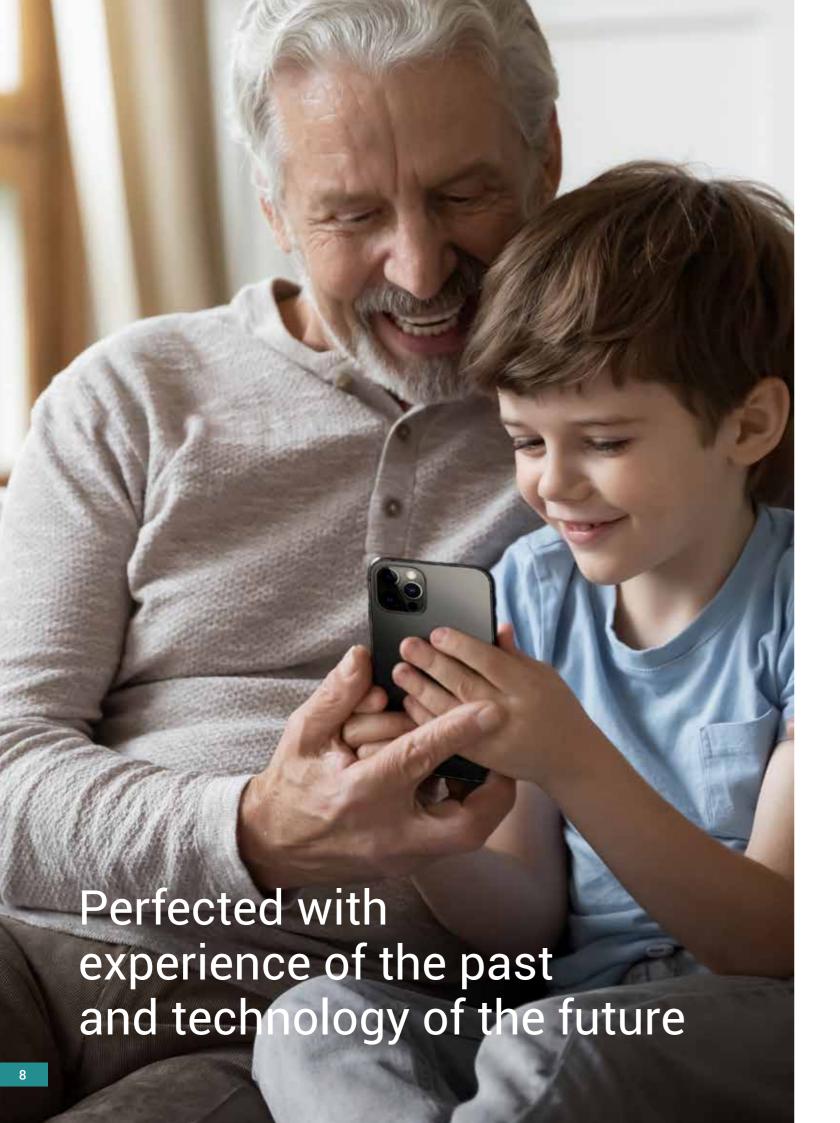




An innovation driven elevator system for comfort, safety and durability. Single solution for all your needs together for a low-mid building.







## **Contents**

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High Safety	18
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ixtures	28
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### W LINE SLS

### One solution to fit all your needs

#### **FEATURES**



320 - 1000 kg



1,0 - 1,6 m/s



45 m



Central guided



Wittur SF series



Single or double entrance



Side or center opening



Complete system or mechanical kit only



EN 81-20/ EN 81-50/ EN 81-21 EN 81-28/ EN 81-70/ GOST

Available with Machine Room (MR) solution.



Shaft **Efficiency** 

Reduced headroom and reduced pit together in one solution.

Ride Comfort

Minimum vibration and noise levels for the first class ride quality.

**High** Safety

Increased safety criteria according to the Wittur standard, beside elevator norms.

**Easy** Installation

Much more easier installation with detailed kits, documents and sub-components.

Design Flexibility

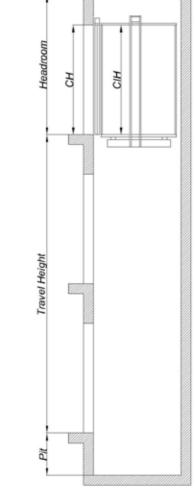
A wide range of colors, materials and components to match with your building.

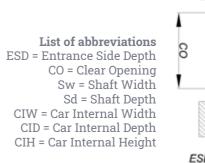
## **W LINE SLS**

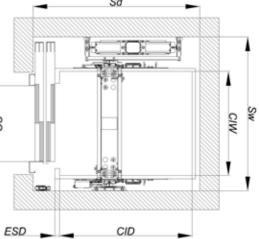
#### The Elevated Comfort

Rated Load (Q)	kg	320 400			450 630		800		1000					
Suspension		2:1							2:1					
Rated Speed	m/s	1	1,6	1	1,6	1	1,6		1	1,6	1	1,6	1	1,6
Max. Travel Height (Th)	m	30	45	30	45	30	45		30	45	30	45	30	45
Entrance Type				0°	/ 0° - 180°				0° / 0° - 180°					
Car Type				М	CS Series				MCS Series					
Car Internal Dimensions (CIW x CID)	mm	9	00x1000	00 1100x1000 1000 x 1250			1100 x 1400		1350 x 1400		1100 x 2100			
Minimum Shaft Dimensions (Sw x Sd)		14	425x1385	1625x1385 1525x1610			1625x1760		1895x1760		1645x2460			
Standard Pit (d1)	mm	1050	1150	1050	1150	1050	1150		1050	1150	1050	1150	1050	1150
Reduced Pit (d1)	mm	550 <sup>(1)</sup>	850 <sup>(1)</sup> / 1150 <sup>(2)</sup>	550 <sup>(1)</sup>	850 <sup>(1)</sup> / 1150 <sup>(2)</sup>	550 <sup>(1)</sup>	850 <sup>(1)</sup> / 1150 <sup>(2)</sup>		550 <sup>(1)</sup>	850(1) / 1150(2)	550 <sup>(1)</sup>	850 <sup>(1)</sup> / 1150 <sup>(2)</sup>	550 <sup>(1)</sup>	850 <sup>(1)</sup> / 1150 <sup>(2)</sup>
Standard Headroom (h1) (When 700 mm balustrade)	mm	3380(3)	3540 <sup>(3)</sup>	3380(3)	3540 <sup>(3)</sup>	3380 <sup>(3)</sup>	3540 <sup>(3)</sup>		3380(3)	3540 <sup>(3)</sup>	3380(3)	3540 <sup>(3)</sup>	3380(3)	3540 <sup>(3)</sup>
Standard Headroom (h1) (When 1100 mm balustrade)	mm	3780 <sup>(3)</sup>	3940 <sup>(3)</sup>	3780 <sup>(3)</sup>	3940 <sup>(3)</sup>	3780 <sup>(3)</sup>	3940 <sup>(3)</sup>		3780 <sup>(3)</sup>	3940 <sup>(3)</sup>	3780 <sup>(3)</sup>	3940 <sup>(3)</sup>	3780 <sup>(3)</sup>	3940 <sup>(3)</sup>
Reduced Headroom (h1)	mm	2705(4)	2865(4)	2705(4)	2865(4)	2705(4)	2865(4)		2705(4)	2865(4)	2705(4)	2865(4)	2705(4)	2865(4)
Door Clear Opening (CO)	mm	6001100							60	001100				
Door Clear Height (CH)	mm	20002200						20002200						
Door Type		Hydra / Augusta Evo / Core						Hydra / Augusta Evo / Core						
Car Internal Height (CIH)	mm	2000 - 2300					2000 - 2300							

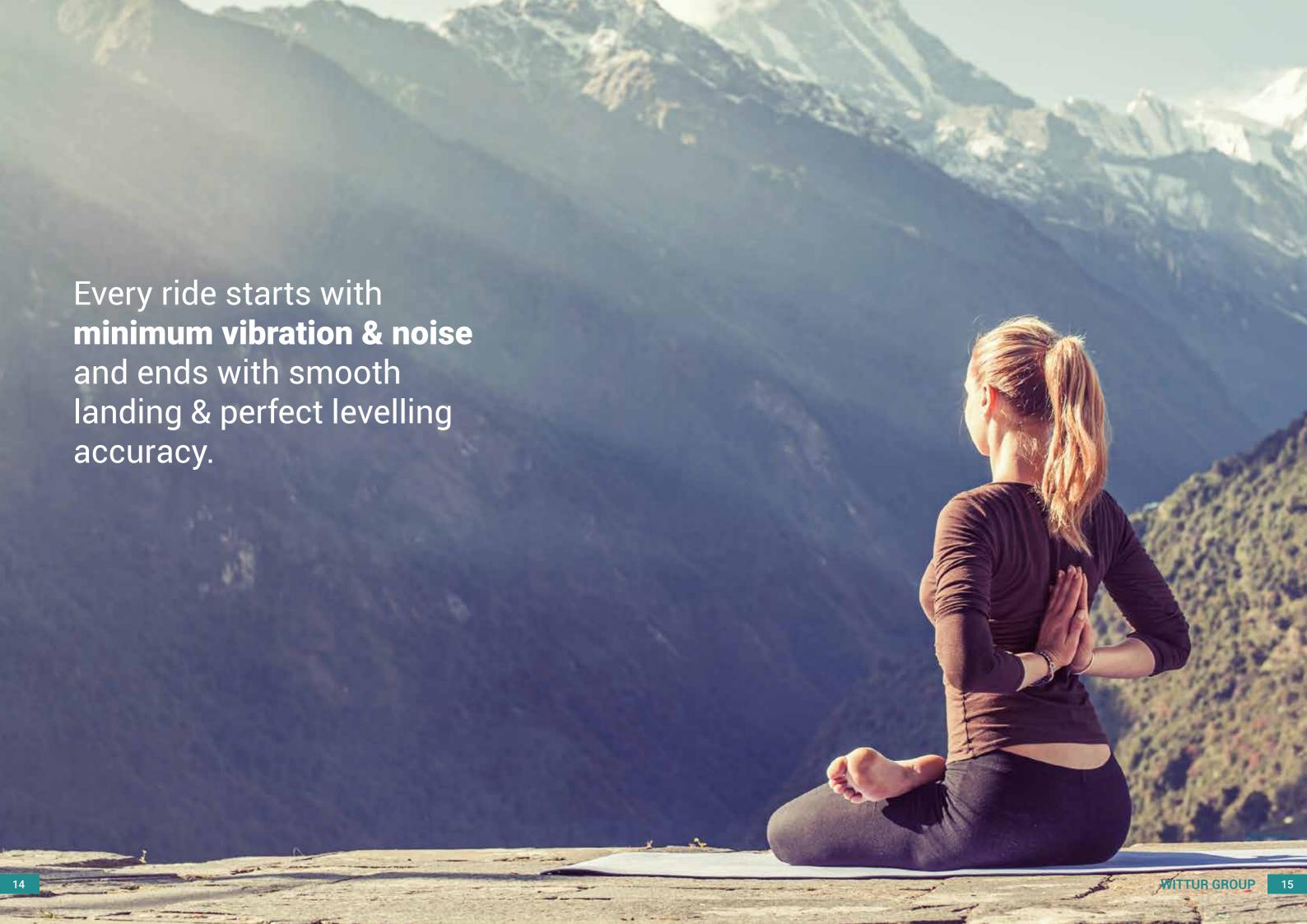
- (1) with PVC floor material without compensation chain
- (2) with PVC floor material with compensation chain
- (3) Car internal height is 2100 mm
- (4) Car internal height is 2000 mm
- Variable layout solutions for different shafts with MR and MRL options
- Covers wide options according to travel height and speed
- Wide range of Wittur door and car options

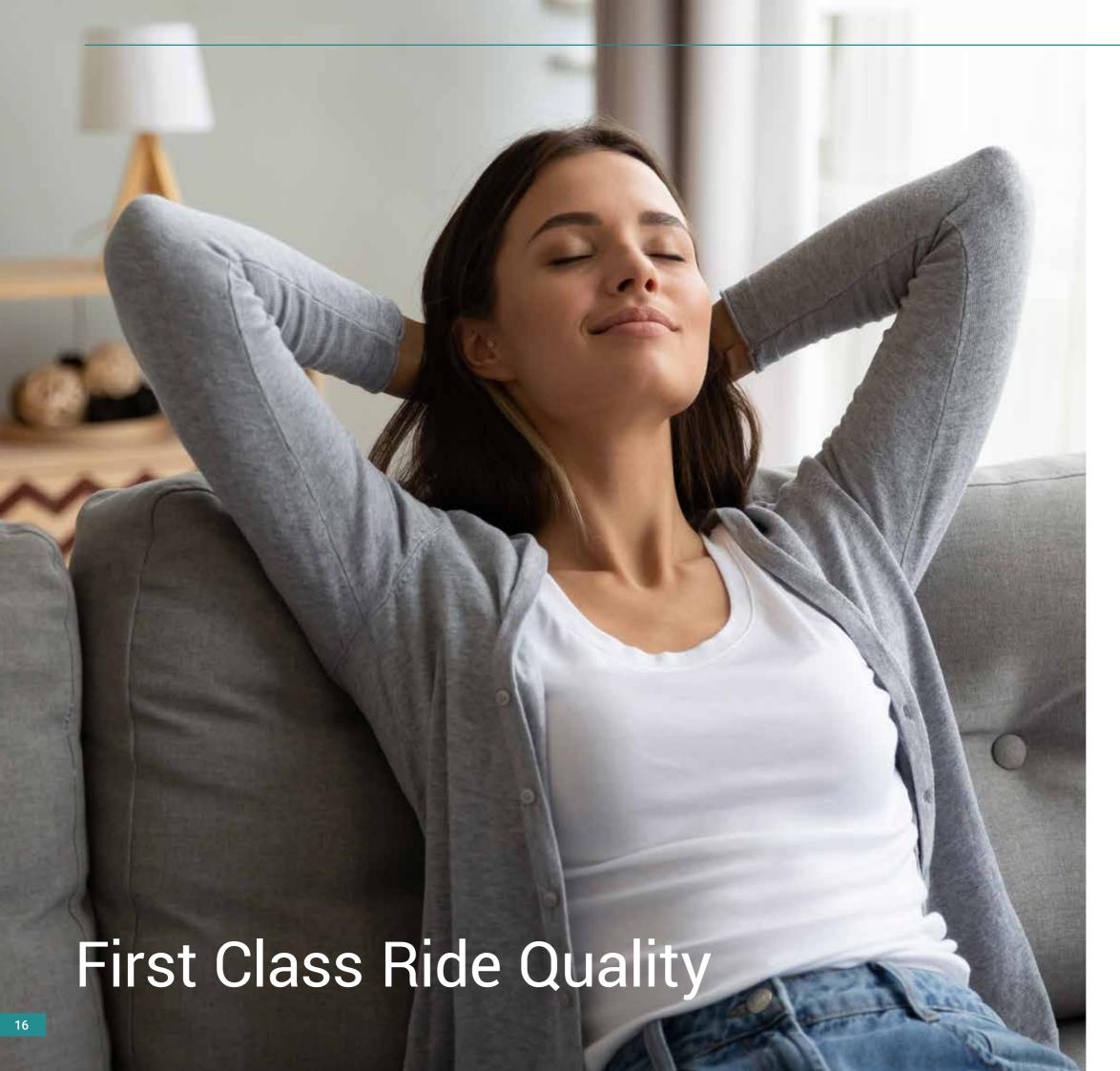






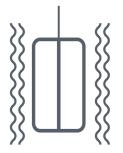
12



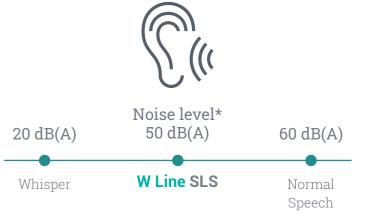


Smooth operation through innovation driven solutions and intelligent design makes perfect riding experience.

- Optimized roping idea
- Suitable layout placement with improved guide rail and traction
- Silence ride with improved motor technology
- Smooth running
- Additional isolation under motor and at car fixation



1.0m/s, 1.6 m/s Silent and smooth running

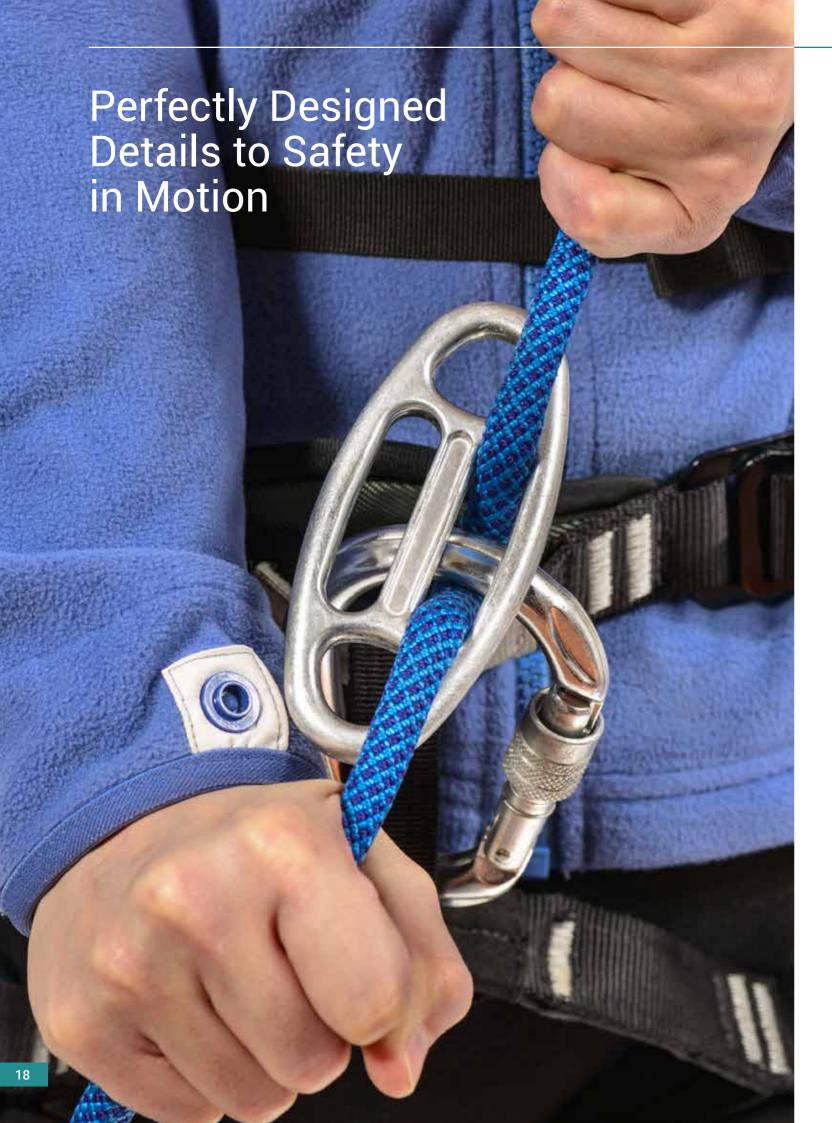


 $^{\star}$  Measurements are performed in compliance with ISO 18738-1.

In this study, vibrations on the lift and noise inside the cabin are measured and ride quality is calculated for the 1 m/s with respect to ISO 18738-1.

All these values can only be achieved following a correct assembly process.

50±2 dB(A),  $x \le 4$  mg,  $y \le 6$  mg vibration.



The sub-components have designed to enhance passenger safety to the maximum level. Discover your options and improve your mobility by adding more safety, speed and comfort with the latest technology.

- Additional safety criteria from Wittur standard beside main norms of EN 81-20/50, 2014/33/EU
- EN 81-20/50

- Production facility in accordance with ISO 9001&14001&45001
- Safety components of Wittur
- · Robust design and analyses with Wittur engineering
- Patented solutions



#### **Lift Machine**

- Low-vibration and low-noise level with a perfectly matching magnet design
- Rope tension in all directions
- High efficiency
- No gear oil



#### **Safety Gear**

- Innovative solutions
- Rigid product quality control
- Low release force from tripping position
- Sufficient running clearance in order to avoid unintended gripping
- Maintenance-free operation

# Single Solution for Hassle-Free Installation



#### **Topology optimized design for all components:**

All sub-components are according to topology optimized design understanding by FEM analyses, actual-validation tests.



#### **Additional installation kits:**

All the additional kits you need for an easy and quick installation.



#### **Improved documentation:**

Detailed manuals, multipage standardized layouts, different language options.



#### **Modular structure:**

Compatible parts can be easily modified with different installation needs.



#### Pre-assembled modules:

Sub-components are pre-assembled to make installation easier and faster.



# Suitable packaging according to installation sequence:

Packages are numbered according to the installation process to help you.

Our team of experts is ready to offer you a smooth installation process.

Installing an elevator in state-of-theart has never been easier before!

## Reflect Your Vision to Every Detail

The wide range of finishes and accessories make it easy to adapt to every taste and requirements to create a unique passenger experience.







#### **AMSTERDAM**

**FLOOR** WALL PANELS **ENTRANCE SIDES** MIRROR PANEL **MIRROR** 

PVC Vinyl / Dark Cool Grey Stainless Steel / Brushed Stainless Steel / Brushed Stainless Steel / Brushed Float Mirror / Standard

CEILING LIGHTING HANDRAIL KICKPLATE COP\*

Stainless Steel / Brushed LED0101 (on ceiling Type-1) Ø38 mm Brushed Stainless Steel Stainless Steel / Brushed Ocean / TFT / Surface

\*Car Operating Panel is not included as standard.

10

LED

Floor Finishings

Straight or Curved Handrails

46 Wall Lightings **Finishings** 

**RAL** paintings On Sheet or Glass

Mirror **Applications** 

## Make the Quality Visible

Preconfigured car models help you add character to your project without wasting time.







#### **MONTE CARLO BLACK**

FLOOR Granite / Natural / Star Galaxy
WALL PANELS Stainless Steel / Super Mirror
Painted Glass / Black
ENTRANCE SIDES Stainless Steel / Super Mirror
MIRROR PANEL Stainless Steel / Super Mirror
Float Mirror / Standard

CEILING LIGHTING HANDRAIL KICKPLATE COP\* Stainless Steel / Super Mirror LED0100 (on ceiling Type-1) Ø38 mm Brushed Stainless Steel Stainless Steel / Super Mirror Wittur Panel / TFT / Flush

To explore other colors of Monte Carlo, refer to the Car catalogue that you can view using this link: https://www.wittur.com/en/elevator components/cars.aspx Please note that this car model available on request and may affect lead time.

<sup>\*</sup>Car Operating Panel is not included as standard.

# Good Design is Attainable

Rewarding way in the challenge of being limited by a strict budget.







#### **ROTTERDAM 5018**

FLOOR
WALL PANELS
ENTRANCE SIDES
MIRROR PANEL
MIRROR

PVC Vinyl / Dark Cool Grey Powder Paint RAL 5018 Powder Paint RAL 5018 Stainless Steel / Brushed Float Mirror / Standard CEILING
LIGHTING
HANDRAIL
KICKPLATE
COP\*

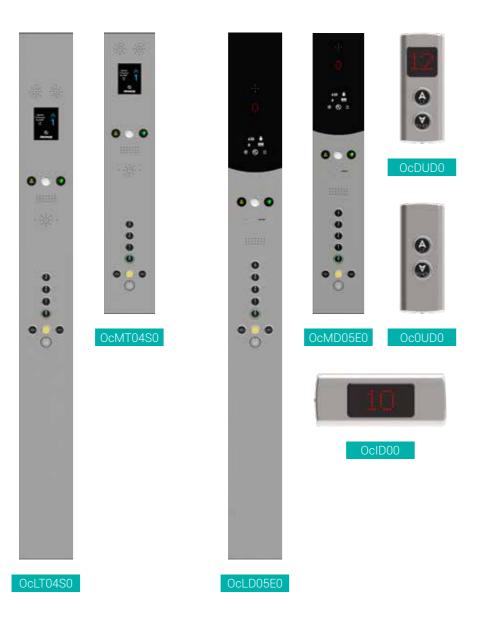
AL Composite Panel Metallic Silver
LED 0500 (on ceiling Type 1)
Ø38 mm Brushed Stainless Steel
Stainless Steel / Brushed
Sunset / 7 Segment / Surface

To explore other colors of Rotterdam, refer to the Car catalogue that you can view using this link: https://www.wittur.com/en/elevator components/cars.aspx Please note that some colors available on request and may affect lead time.

<sup>\*</sup>Car Operating Panel is not included as standard.

# High Technology with Rich Variety

#### **OCEAN SERIES**



	C	OP Display Typ	oe e	LOP - LIP	LOF	P-LIP Display T	уре	
Model	Dot Matrix	LCD	TFT	Model	Dot Matrix	LCD	TFT	
WITTUR PANEL	•	•	•	OCEAN		_	_	
OCEAN	•	-	•	UCEAN	•	•		
MOON	•	-	•	MOON	•	-	•	
SUNSET	•	-	•	SUNSET	•	-	•	

#### **MOON SERIES**



#### **SUNSET SERIES**



	CC	OP .	CONTROLLER			
Model	Mounting	Height	E-Pack Plus	Arcode	E-Pack Evo	
WITTUR PANEL	Flush	Full	•	•	•	
OCEAN	Surface	Half/Full	•	•	-	
MOON	Surface	Half/Full	-	•	-	
SUNSET	Surface	Half/Full	-	-	•	

# Inspiring the Global Market for More Than 50 Years

A perfect coordination of aesthetic and quality, complemented with maximum application flexibility.



				The state of the s				
		Fire Rating Options	Door Type Options	Clear Opening (CO)*	Clear Height (CH)*	Minimum Floor to Floor Distance (HT)	Mechanical Norms	Additional Norms
AUGUSTA EVO	Landing Door	EU-E120 EU-EW30 / 60 EACU-E30 EACU-E160 BS476 120'	T01, T11	700 ≤ CO ≤ 1100 (100)	2000 ≤ CH ≤ 2200 (100)	Basic Configuration: HT>CH+550	EN 81-20/50 EAC	EN 81-21
	Car Door	-	T02, T12	700 ≤ CO ≤ 1100 (100)	2000 ≤ CH ≤ 2200 (100)	-	EN 81-20/50	
CORE	Landing Door	EU-E120 EU-EW30	T01, T11	700 ≤ CO ≤ 1000 (100)	2000 ≤ CH ≤ 2100 (100)	Basic Configuration: HT>CH+485	EN 81-20/50	EN 81-21
	Landing Door	EU-E120 EU-EW60 EU-EI60 / 120 BS476 120'	T01, T11, T31, T41, T43, T61	500 ≤ CO ≤ 2900 (50)	2000 ≤ CH ≤ 2700 (50)	Basic Configuration: HT>CH+800	EN 81-20/50	EN 81-21 EN 81-71 Cat. 1
		EACU-E30	T01, T11, T41, T43	700 ≤ CO ≤ 2100 (50)	2000 ≤ CH ≤ 2650 (50)			
HYDRA		EACU-EI60	T01, T11	700≤ CO ≤ 1400 (50)	2000 ≤ CH ≤ 2450 (50)			
	Landing Door - ESV	EU-E90 EU-EW30	T01, T11	600 ≤ CO ≤ 1400 (50)	2000 ≤ CH ≤ 2200 (50)		EN 81-20/50	
	Car Door - Slim Glass	-	T02	600≤ CO ≤ 1350 (50)	2000 ≤ CH ≤ 2200 (50)	-	EN 81-20/50	EN 81-21
	Car Door - ESV	-	T02, T12, T32, T35, T42, T44, T62	600 ≤ CO ≤ 2900 (50)	2000 ≤ CH ≤ 2300 (50)	-	EN 81-1/2 EN 81-20/50	
	Landing Door	EU-E120 EU-EW60 EU-EI60 / 120 EACU-EI60 BS476 90' / 120'	T01, T11, T31, T41, T61, T71	600 ≤ CO ≤ 3200 (50)	2000 ≤ CH ≤ 3800 (50)	Basic Configuration: HT>CH+640	EN 81-1/2 EN 81-20/50 EAC	EN 81-21 EN 81-70 EN 81-71 Cat. 1 EN 81-71 Cat. 2 EN 81-72
PEGASUS		BS476 60' / 90'	T01, T11, T41, T71	600 ≤ CO ≤ 2850 (50)	2000 ≤ CH ≤ 2850 (50)		EN 81-1/2	EN 81-21
PEGASUS	Landing Door - ESV	BS476 120'	T01, T11, T41, T71	600 ≤ CO ≤ 2500 (50)	2000 ≤ CH ≤ 2600 (50)	Basic Configuration: HT>CH+640	EN 81-20/50	EN 81-70 EN 81-71 Cat. 1
		EU-E90	T01, T11, T41	750 ≤ CO ≤ 2000 (50)	2000 ≤ CH ≤ 2500 (50)	111.011.040	EAC	EN 81-72
	Car Door	-	T02, T12, T32, T42, T62, T72	600 ≤ CO ≤ 3200 (50)	2000 ≤ CH ≤ 3800 (50)	-	EN 81-1/2 EN 81-20/50	EN 81-70 EN 81-71 Cat. 1 EN 81-71 Cat. 2 EN 81-72

<sup>\*</sup> For specific application range based on different CO, CH, door execution and drive, please refer to the technical catalogues.







**DOORS** 



# OTHER WITTUR SYSTEMS THAT MAY BE SUITABLE FOR YOUR PROJECTS

For detailed information about our systems, you can download the brochure using the QR codes under Features or this link:

www.wittur.com/en/wittur-systems.aspx

# **W Line**Modular and Flexible

#### **FEATURES**



(2) 1,0 - 3,0 m/s

(O\_) 160 m

Central guided

Wittur SF-MF-LF series

Single or double entrance

Side or center opening

Complete system or mechanical kit only

EN 81-20/EN 81-50/EN 81-21 EN 81-28/EN 81-70



# W Line EQ Easy and Quick Installation

#### **FEATURES**

(kg) 180 - 630 kg

( ) 1,0 m/s

**2** 30 m

Cantilevered

E27L

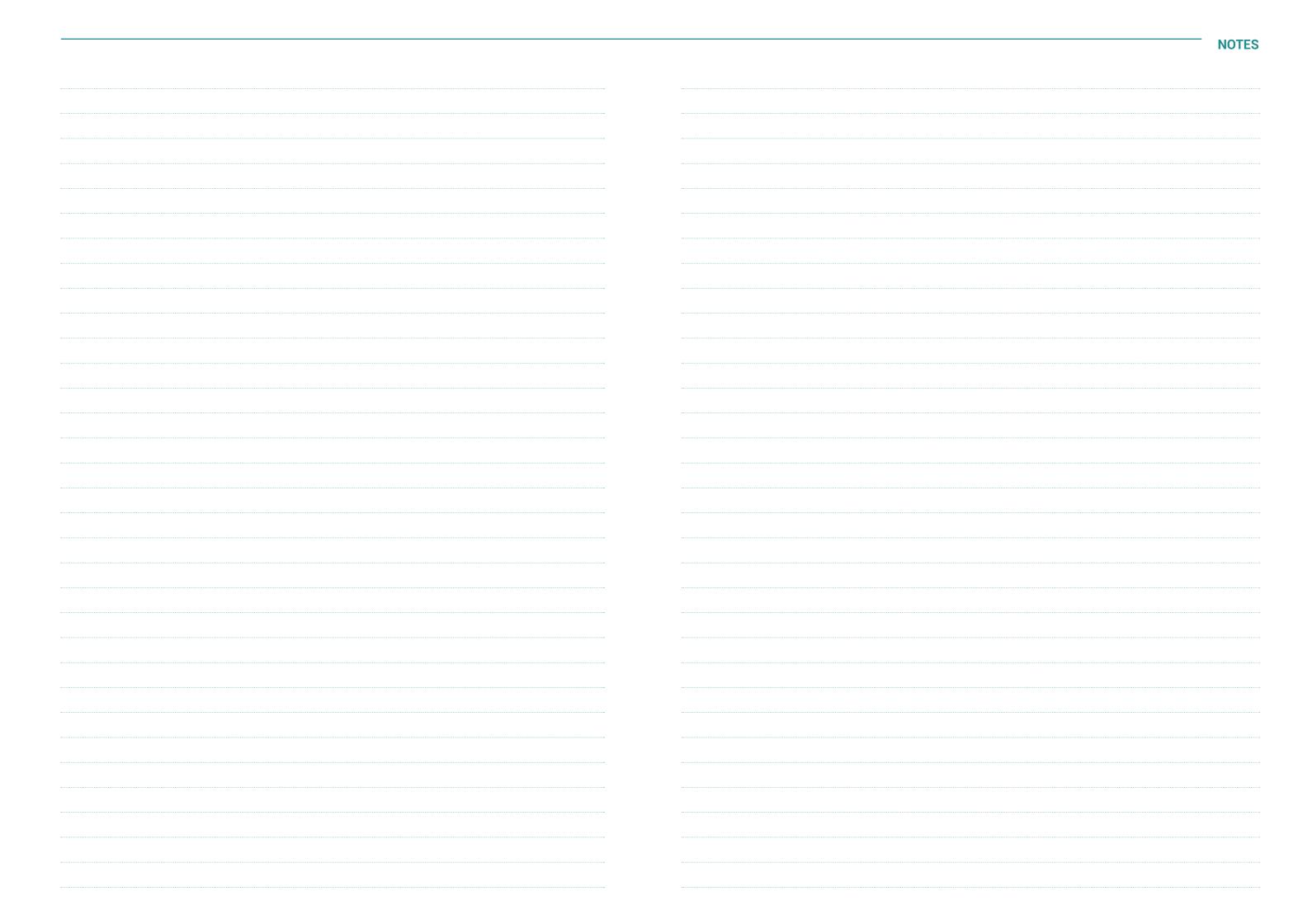
(E) 90°, 180°, 270° entrance and 3 entrances

Side or center opening

Complete system or mechanical kit only

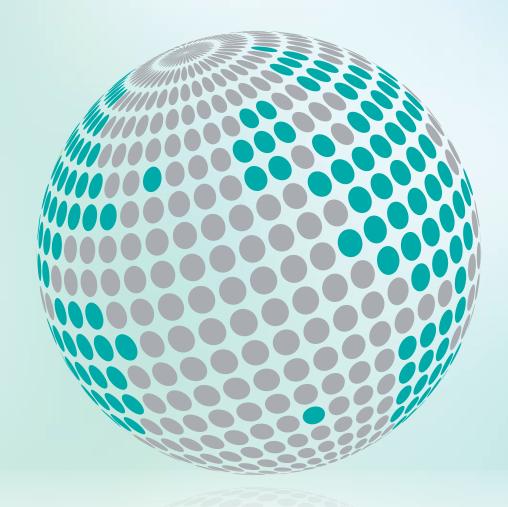
EN 81-20/EN 81-50/EN 81-21 EN 81-28/EN 81-70







# YOUR GLOBAL PARTNER FOR COMPONENTS, MODULES AND SYSTEMS IN THE ELEVATOR INDUSTRY







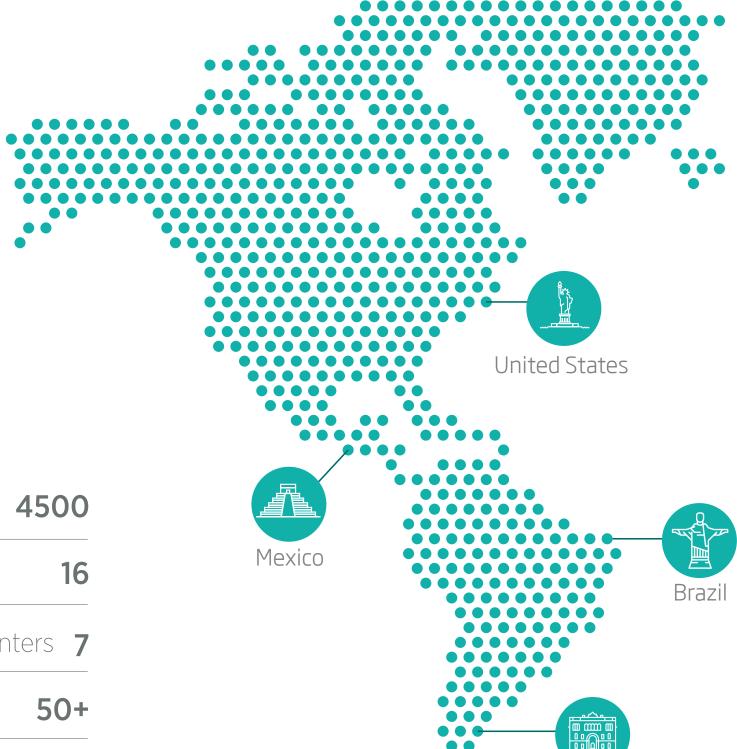
www.wittur.com







The Common Choice of The World is Wittur!



Argentina

P	Employees	4500
	Manufacturing	16
	Development Ce	enters 7
	Sales Offices	50+
٩	Registered Patents	500+





# Modular and flexible

# W Line

## **FEATURES**



320-2500 kg



1,0-3,0 m/s



160 m



Central guided



Wittur SF-MF-LF series



Single or double entrance



Side or center opening



Complete system or mechanical kit only



EN 81-20/EN 81-50/EN 81-21 EN 81-28/EN 81-70





# **AMSTERDAM**

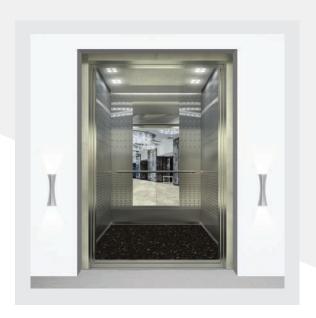


# **Stainless Steel Series**









**NAPLES** 

LOS ANGELES

**HOUSTON** 







**COPENHAGEN** 

**NEW YORK** 

**MANHATTAN** 

<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.



# Color Series

# ROMA



# **Color Series**









**ROTTERDAM 9006** 



**ROTTERDAM 5018** 



**ROTTERDAM 7032** 



**ROTTERDAM 3020** 



**HAMBURG** 

<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.



a minate Series

# BOSTON 01



# **Laminate Series**





BOSTON 02



**BOSTON 03** 



**BOSTON 04** 



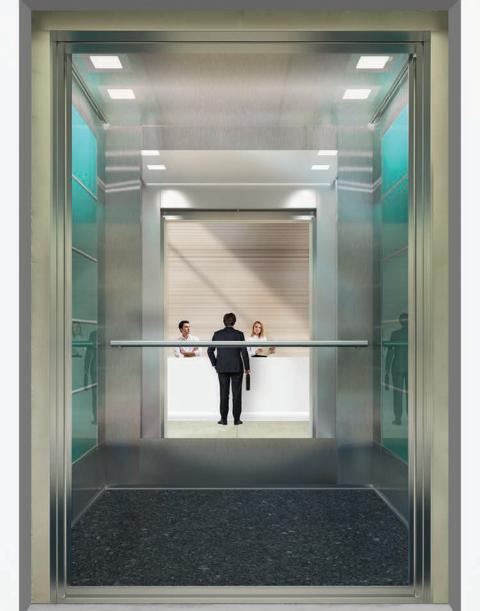
**ATLANTA** 

<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.



# Glass Series

**MONTE CARLO BLUE** 



# **Glass Series**





MONTE CARLO RED



MONTE CARLO BLACK



MONTE CARLO WHITE

<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.



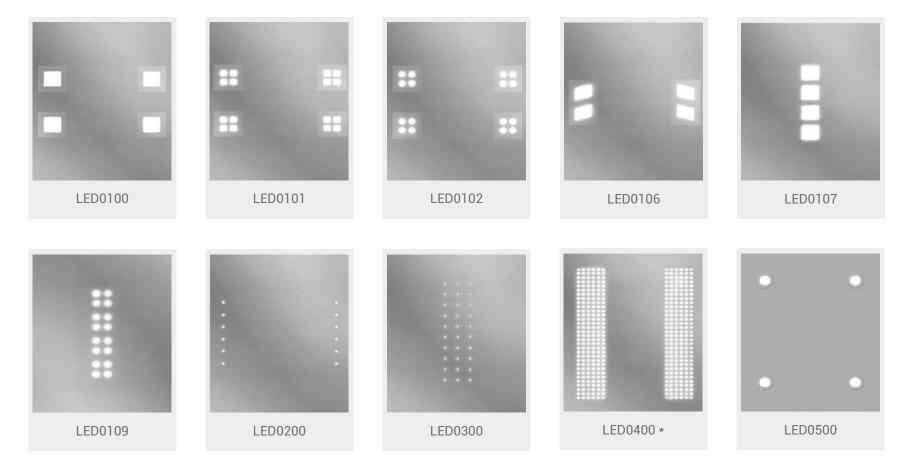


# We share your most special moments



## **Ceilings**





<sup>\*</sup>Feasibility and visual differences should be checked. Please refer to the technical catalogue.

## **Handrails**



## **Mirror Options**











Wide / Full Height













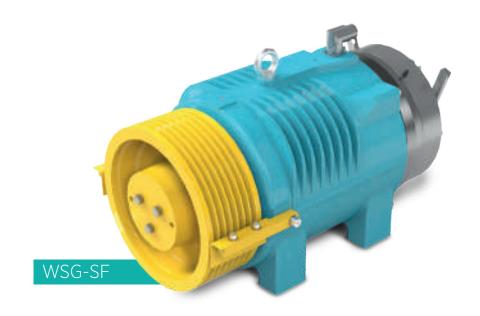


\* Standard steel panel doors fire rating is E120. Please refer to Wittur Door Catalogue for further details.



## Smooth, fast and comfortable travel





Lift	Rated Load	Suspension	Rated Speed	Drive Model	Connection	Traction Diameter	Power
W Line 320	320 kg	2:1	1,0 m/s	WSG-SF 1	Plug & Play	Ø 240 mm	2,3 kW
					<b>Terminal Box</b>		
W Line 400-450	400-450 kg	2:1	1,01,6 m/s	WSG-SF 2	Plug & Play	Ø 240 mm	34,8 kW
					<b>Terminal Box</b>		
W Line 630	630 kg	2:1	1,01,6 m/s	WSG-SF 3 / WSG-SF S	Plug & Play	Ø 240 mm	46,4 kW
					<b>Terminal Box</b>		
			2,0 m/s	WSG-SF 4	Plug & Play	Ø 240 mm	11,3 kW
					<b>Terminal Box</b>		
W Line 800	800 kg	2:1	1,01,6 m/s	WSG-SF S	Plug & Play	Ø 240 mm	4,87,74 kW
					<b>Terminal Box</b>		
			2,0 m/s	WSG-SF 4	Plug & Play	Ø 240 mm	11,3 kW
					<b>Terminal Box</b>		
W Line 1000	1000 kg	2:1	1,01,6 m/s	WSG-SF 4	Plug & Play	Ø 240 mm	5,79,1 kW
					<b>Terminal Box</b>		



## **E-Pack Evo**

#### • Power Range:

Between 4kW and 22kW.

#### • Silent:

Operates quietly through its contactor-less system (Safe Torque Off - STO).

#### Compact Dimensions:

Lift controller and frequency inverter integrated in one device.

#### • DSP-Based design:

Highest level of comfort and efficiency.

#### • Fast Installation:

Pre-arranged cabinet complete with all electrical components.

#### • Group Control:

Support for group of lifts up to 8.

#### • Hardware:

Built-in RFI filter and choke coil.

#### Interfaces:

USB and Ethernet.

#### Remote Access:

Remote access via internet.

#### Access Control:

Integrated access control and VIP Access support.

#### TFT Hand Terminal

#### • Easy Update:

The hand-held terminal stores all data in the integrated SD card.

## **E-Pack Plus**

#### • Compact Dimensions:

Integrated control with frequency inverter.

#### • Fast Installation:

Pre-arranged cabinet complete with all electrical components.

#### • Fits in Every Shaft:

With compact control cabinet dimensions or with service panel in front of the landing door frame and the power unit inside the head room.

#### • Easy Update:

The hand-held terminal stores all data in the integrated SD card.

#### • Easy Setting:

Automatic motor tuning, shaft learning features.

#### • Remote Control:

Can bus connection between hand-held terminal with colored TFT display and lift. No PC needed.

#### • 5 Pre-Set Comfort Parameters:

The 5 most important parameters for fast and safe commissioning.

#### • Always Have An Access To The Latest Manuals:

With hand-held terminal always access to the latest firmware.

#### • Further Advantages:

High stopping accuracy, retraction with opening door, energy-saving mode, releveling, short floor drive, integrated EMC filter and DC choke, 230 VAC safety circuit.

#### Hand Terminal





# We share your most special moments





### **Moon Series**



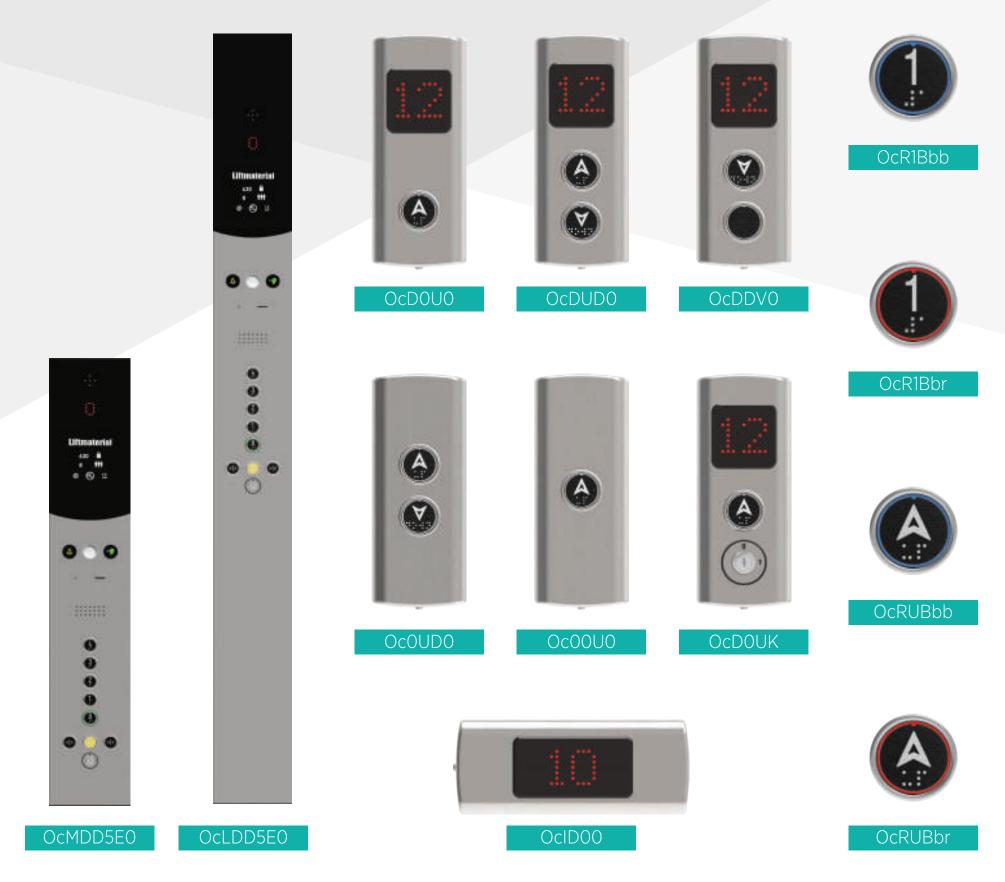


Moon Series are compatible with E-Pack Plus controller.



### **Ocean Series**

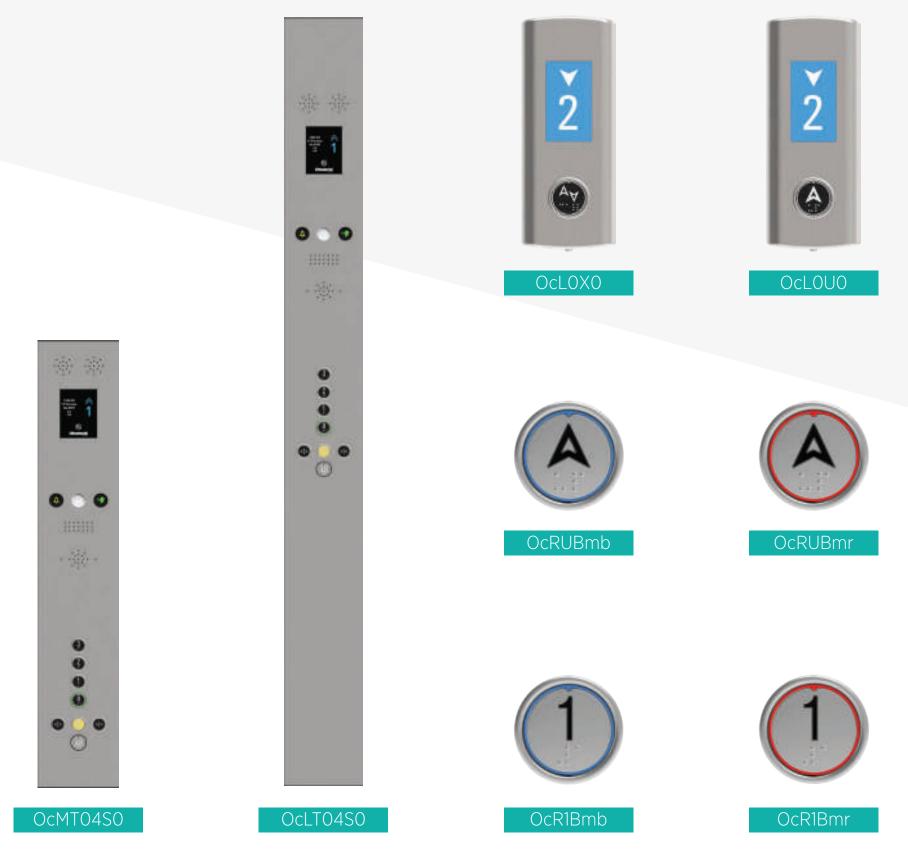




Ocean Series are compatible with E-Pack Plus controller.

### **Ocean Series**





Ocean Series are compatible with E-Pack Plus controller.





### **Sunset Series**





**Sunset Series are compatible with E-Pack Evo controller.** 

# We share your most precious time











# W Line EQ







## Best in class in shaft efficiency



The Common Choice of The World!













## Well-Rounded and Smart Solutions

## W Line EQ

### **FEATURES**



180 - 630 kg



1,0 m/s



30 m



Cantilevered



**E27L** 



90°, 180°, 270° entrance and 3 entrances\*

4



Side or center opening



Complete system or mechanical kit only



EN 81-20/EN 81-50/EN 81-21 EN 81-28/EN 81-70



**AMSTERDAM** 

## CARS









## Stainless Steel Series









LOS ANGELES



HOUSTON



COPENHAGEN



HAMBURG



NEW YORK



MANHATTAN



<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.

ROMA

## Color SERIES





## Color Series









ROTTERDAM 9006



ROTTERDAM 5018



ROTTERDAM 7032



ROTTERDAM 3020



<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.

BOSTON 01

# Laminate SERIES



## Laminate Series









BOSTON 03



BOSTON 04



ATLANTA



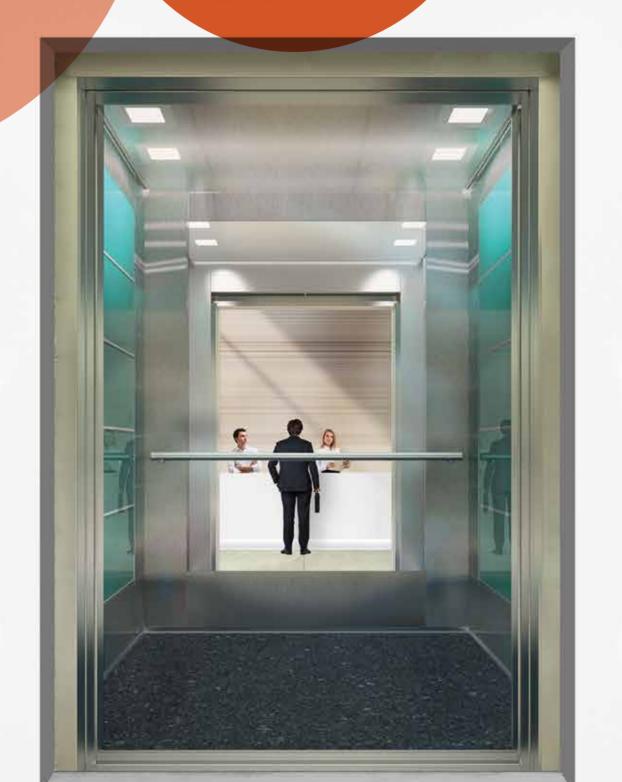
<sup>\*</sup>Please refer to Wittur MCS1 Car Catalogue for further details.

MONTE CARLO BLUE

## Glass SERIES

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# **Glass Series**









MONTE CARLO BLACK



MONTE CARLO WHITE







### **Ceilings**









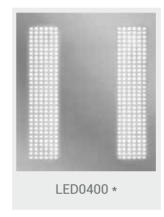














\*Feasibility and visual differences should be checked. Please refer to the technical catalogue.

### **Handrails**



### **Mirror Options**





Standard / Full Height



Standard / Half Height



Wide / Full Height



Wide / Half Height







## DOORS







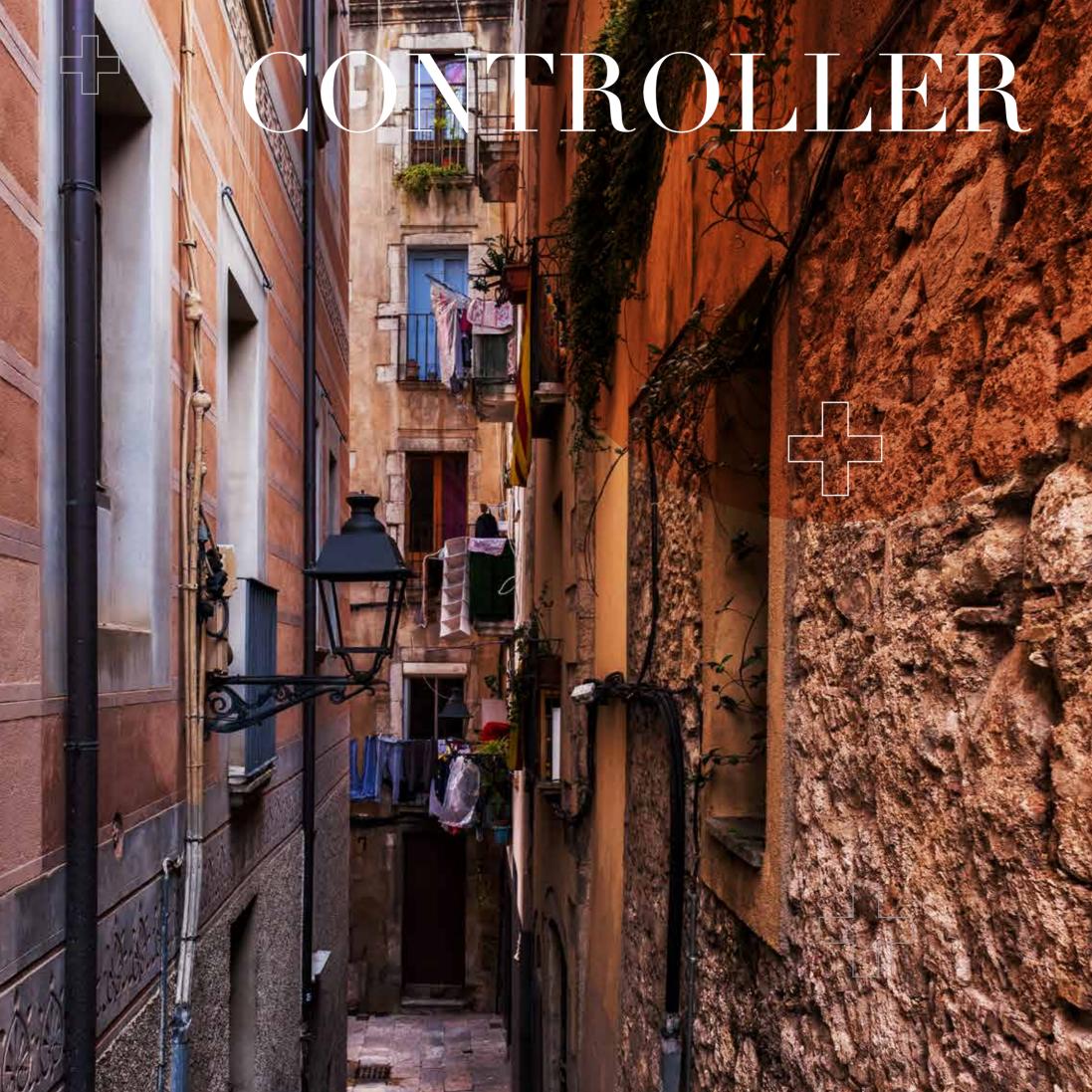




System	Rated Load	Rated Speed	Suspension	Drive Model	Connection	Traction Diameter
W Line EQ 375	180 - 375* kg	1,0 m/s	1:1	E27L	Terminal Box	Ø180 mm
W Line EQ 630	375* - 630 kg	1,0 m/s	2:1	E27L	Terminal Box	Ø180 mm

<sup>\*</sup>According to P weight, system's suspension should be considered.







### E-Pack Evo

### • Power Range:

Between 4kW and 22kW.

#### • Silent:

Operates quietly through its contactor-less system (Safe Torque Off - STO).

### • Compact Dimensions:

Lift controller and frequency inverter integrated in one device.

### • DSP-Based Design:

Highest level of comfort and efficiency.

#### • Fast Installation:

Pre-arranged cabinet complete with all electrical components.

### • Group Control:

Support for group of lifts up to 8.

### • Hardware:

Built-in RFI filter and choke coil.

### • Interfaces:

USB and Ethernet.

#### Remote Access:

Remote access via internet.

### • Access Control:

Integrated access control and VIP Access support.

### • TFT Hand Terminal

### • Easy Update:

The hand-held terminal stores all data in the integrated SD card.

### E-Pack Plus

### • Compact Dimensions:

Integrated control with frequency inverter.

#### • Fast Installation:

Pre-arranged cabinet complete with all electrical components.

### • Fits in Every Shaft:

With compact control cabinet dimensions or with service panel in front of the landing door frame and the power unit inside the head room.

#### • Easy Update:

The hand-held terminal stores all data in the integrated SD card.

### • Easy Setting:

Automatic motor tuning, shaft learning features.

#### • Remote Control:

Can bus connection between hand-held terminal with colored TFT display and lift. No PC needed.

#### • 5 Pre-Set Comfort Parameters:

The 5 most important parameters for fast and safe commissioning.

### Always Have An Access To The Latest Manuals:

With hand-held terminal always access to the latest firmware.

### Further Advantages:

High stopping accuracy, retraction with opening door, energy-saving mode, releveling, short floor drive, integrated EMC filter and DC choke, 230 VAC safety circuit.

#### Hand Terminal









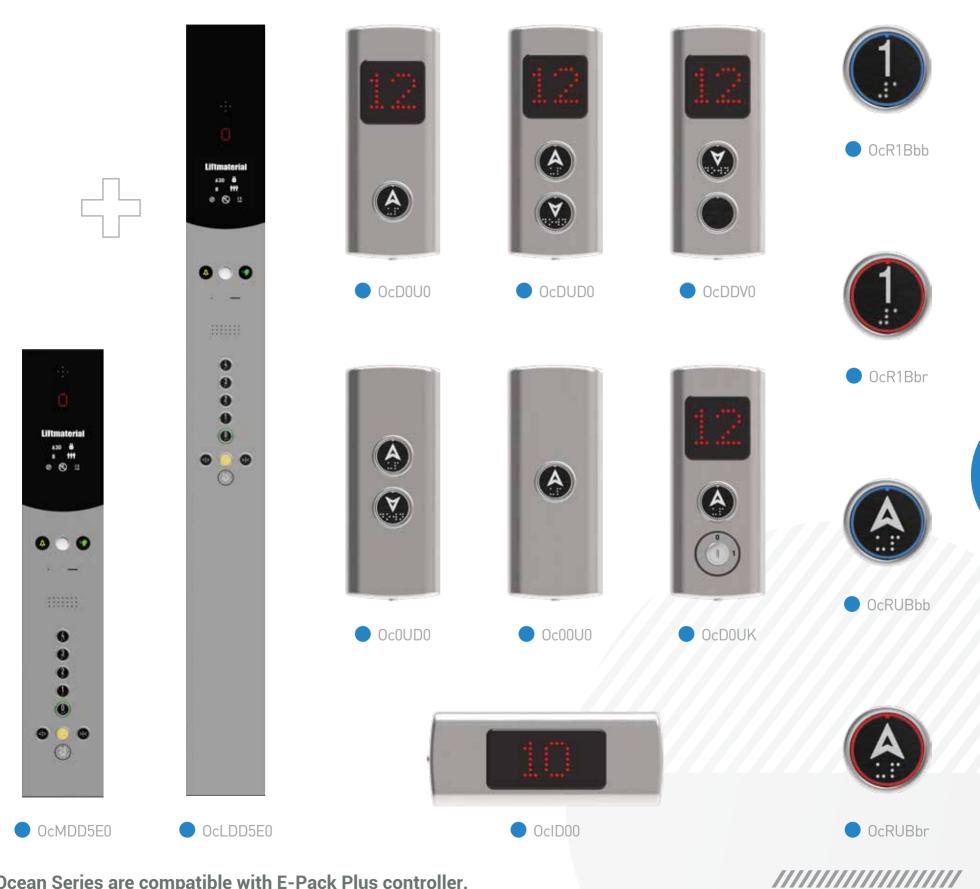






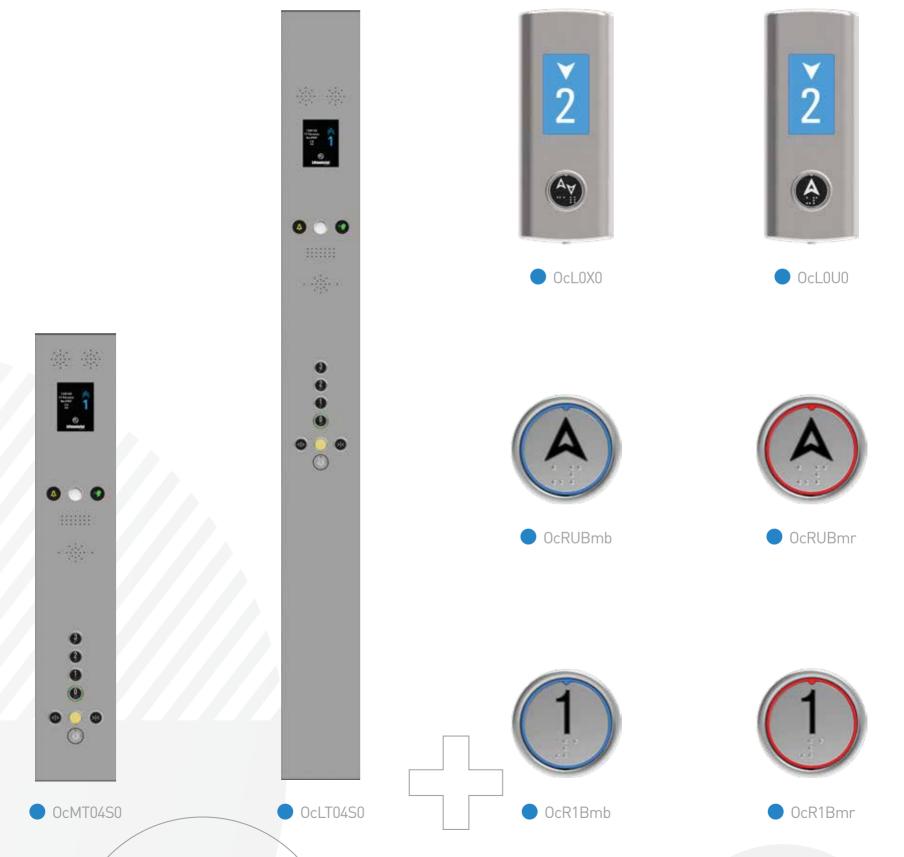






### **Ocean Series**





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Ocean Series are compatible with E-Pack Plus controller.

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# Easy & Quick installation

## W Line EQ





### **NOTES:**


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