

## MRM W Line

MODULAR MACHINE ROOMLESS ELECTRIC ELEVATOR  
FOR MODERNIZATION



*safety in motion™*

# WELCOME TO WITTUR!

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

## 45+

years of experience  
and value creation

**We are your global solution  
provider in the elevator world.**

Our experience reaches back 45  
years in which we have developed  
ourselves into a valuable supplier  
for our numerous customers  
in more than 60 countries  
around the world.

safety **in** motion™

The key to our success is based on the ideas, commitment and expertise of our more than 3500 employees worldwide, who contribute to continuous improvement on all levels. Our management as well as our staff are truly global and we encourage the interplay of different cultures and nationalities in our project teams and offer international career paths. In each of our 10 manufacturing sites we have committed ourselves to the same standards of excellence, assuring that our products are of highest quality, produced efficiently by applying environmentally friendly manufacturing processes.





10  
manufacturing sites

60  
countries



3.500  
employees

*safety* **in** *motion*™



*Wittur is Safety in Motion!* We are a driving force for safety in the elevator industry and are always looking for possibilities to improve our performance. The high level of safety we supply is not only reflected in our products and solutions but is also visible at each of our manufacturing sites. It is our responsibility to assure that our employees return home safely every day. This holistic safety standard is managed by the worldwide *Wittur Production System*: a structured process incorporating *Concern Rooms* to handle feedbacks, *Safety Corners* to focus our employees on safety and *Functional Excellence Management (FEM) Boards* to publish production trends and engage all members of the Wittur team in the accomplishment of quality, production and safety targets.

# MRM W Line

MRM W Line is Wittur's flexible machine roomless electric elevator, designed to optimise the use of shaft space, based on modular construction with reduced pit and headroom height.

## Key features

Rated load	320-1050 kg
Rated speed	1.0 m/s
Travel height	up to 30 m
Car sling	L-Frame
Drive	Energy efficient Wittur WSG T and WSG S gearless drive 2:1. (320 kg 1:1)
Entrance	Single or double (90° and 180°)
Doors	Center or side opening
Package	Mechanical package or complete package with Wittur E-Pack Can Bus controller

## 1 Quick installation

The MRM W Line is easy and quick to install. Handling on site is highly optimised: the elevator's sub components are delivered in clearly labelled packages, numbered according to the assembly sequence.

Each component has a separate user-friendly instruction manual, making the steps of the assembly process easy to follow and fail-safe. The assembly of the electrical components has also been made simpler thanks to Wittur's "Plug and Play" concept. All the customer has to do is to connect the components using the pre-installed fail-safe plugs as instructed in the manuals. No welding or manual cable connection is necessary.







## 2 Durable and reliable

The MRM W Line offers the highest level of safety during installation and maintenance procedures. A simple design and the use of quality components by Wittur result in high reliability, safety and operating comfort for the end user of each MRM W Line elevator.



## 3 A silent and comfortable ride

Through the combination of highly efficient mechanical and electrical components (like the gearless drive), use of isolation pads, drive control by means of a frequency inverter, balanced rope arrangement and low friction sliding guide shoes, it has been possible to obtain a high ride comfort and low noise levels compliant with VDI 2566-2. The "Comfort-Kit" (the comfort-kit are isolation blocks mounted under the drive and the dead hitch points) with its silent blocks offers an enhanced ride comfort. The noise level perceived by the passenger from inside the car is limited to 55 dBA.




## 4 Compact design with reduced dimensions

The MRM W Line makes optimal use of available space and can be installed in any type of shaft with a pit depth starting at just 350 mm (for 320 kg version) and headroom starting at just 2600 mm (up to 630 kg), both according to EN 81-21. MRM W Line dimensions are suitable to be fitted into existing hydraulic lift shafts for modernisation purposes.





A graphic of a horizontal energy efficiency scale with six colored arrows pointing right, labeled B, C, D, E, and F from top to bottom. The colors transition from dark green (B) to light green (C), yellow (D), orange (E), and red (F).

A sustainable design for

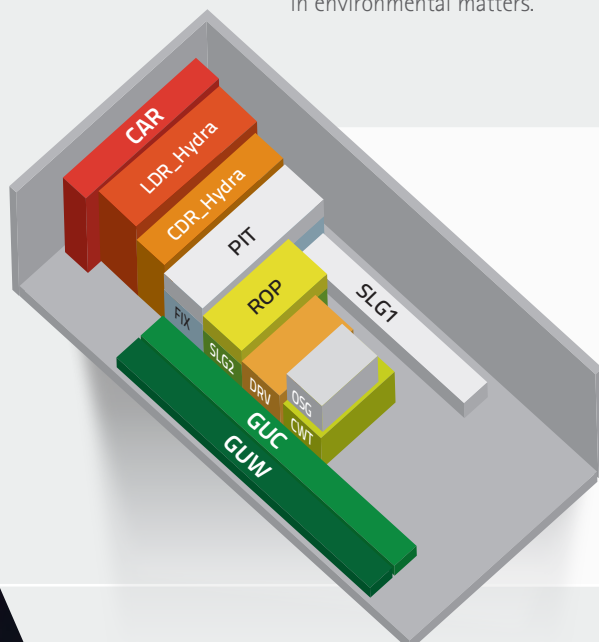
# Energy Efficiency

The MRM W Line offers low energy consumption thanks to its efficient ECO design. Several installations have been awarded the 'A' classification according to the VDI 4707 German guidelines and the ISO 25745-2 standard published in 2015



## 5 Reduced energy consumption

MRM W Line is powered by energy efficient permanent magnet Wittur WSG gearless drives. Wittur E-Pack controller with integrated inverter is pre-set at factory with optimal drive parameters for high energy efficiency. Wittur latest generation ECO+ and MIDI+ brushless door drives offer a significant reduction of power consumption per working cycle. Wittur doors are pre-arranged for 0 watt standby mode to cut energy consumption when lift is not in use. Wittur car lighting is based on cutting edge LED (light-emitting diode) technology. LEDs have many advantages over other types of light sources including lower energy consumption, longer lifetime, improved physical robustness and small size. Optionally, timed car lighting will further increase energy saving during operations. Wittur Production System (WPS) using lean production criteria is used in all Wittur production facilities to obtain levelled and efficient processes. Wittur group pursues a continuous improvement of the environmental compatibility of its production. Wittur production facilities implement and maintain an effective Environmental Management System according to ISO 14001 requirements, with the target to reduce the consumption of energy resources, water and materials, improve waste management through recovery and recycling, verify the achieved goals and promote the involvement and the training of its employees in environmental matters.



Logistic enhancements for reduction of shipping and better waste management

Example of truck loading suggested scheme provided by Wittur.

## 6 Optimised packaging

Wittur modular package concept for MRM W Line is based on compact 100% recyclable cardboard boxes to reduce wastes after installation and CO<sub>2</sub> emissions due to transportation.

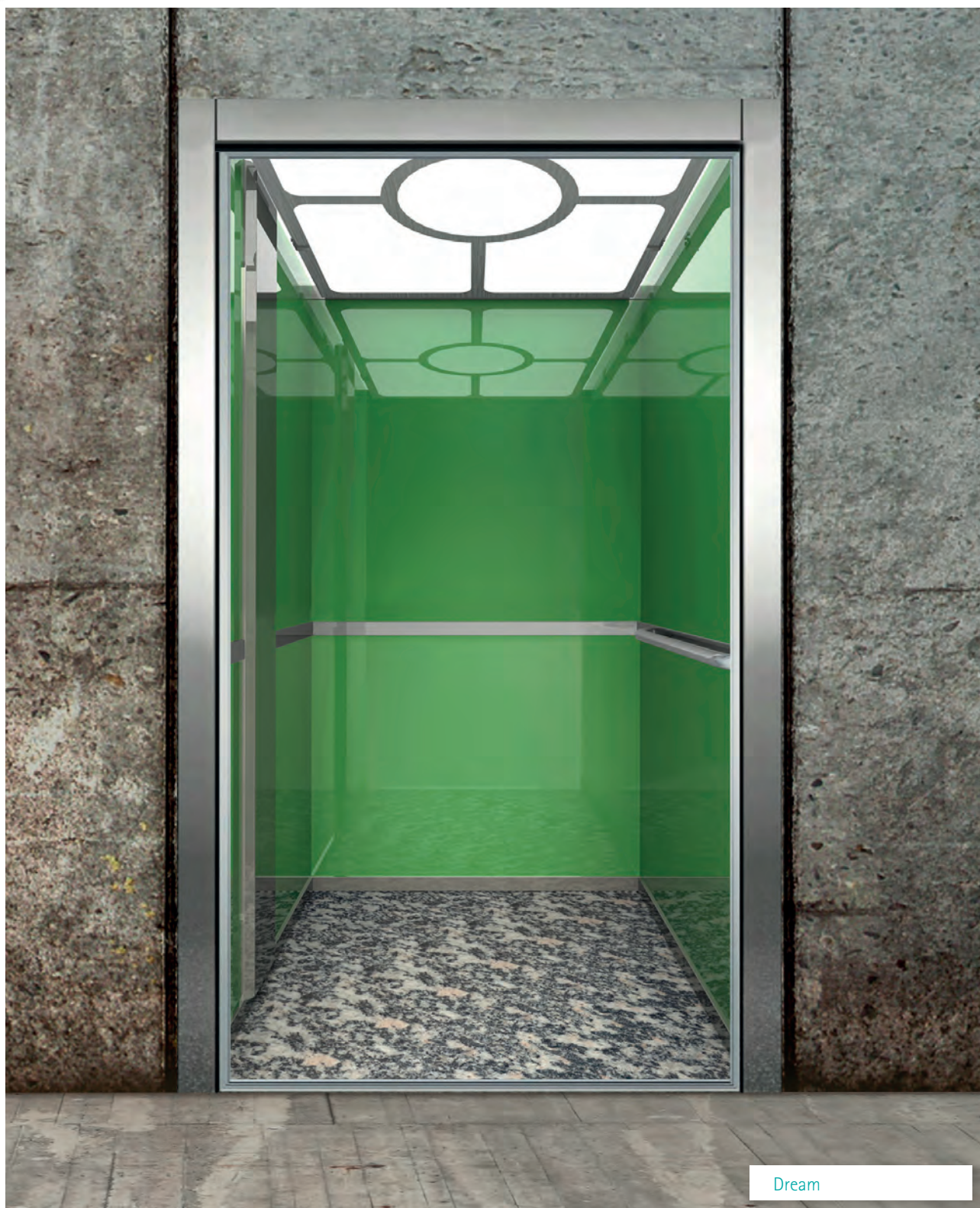




## Available finishes

The MRM W Line offers a wide and versatile range of options and car decorations. The standard decorations, with their functional designs, offer the added advantage of a short production lead-time, but the MRM W Line can be supplied in a most versatile range of decorations to suit any request including skinplate, melamine, laminate, wood, stainless steel and glass.

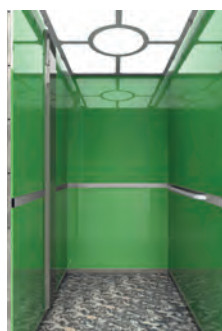
For the full range of available decorations, please contact your local Wittur representative.





## DREAM

A light and relaxing design which connects to your ideal place to be. Glass walls and unlimited choices let you enter the land where all your dreams become true.



Dream - D100



Dream - D200



Dream - D300



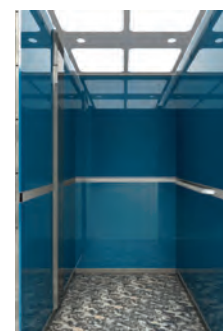
Dream - D400



Dream - D500



Dream - D600



Dream - D700

	D100	D200	D300	D400	D500	D600	D700
	Painted glass	Painted glass	Painted glass	Painted glass	Painted glass	Painted glass	Painted glass
<b>Ceiling</b>	BTL09	BTL 06	BTL 08	BTL 20	BTL 10	BTL 11	BTL 12
<b>Left wall</b>	Green RAL 6018	Orange RAL 2004	Red RAL 3020	Black RAL 9005	Brown RAL 8028	White RAL 9016	Blue RAL 5017
<b>Back wall</b>	Green RAL 6018	Orange RAL 2004	Red RAL 3020	Black RAL 9005	Brown RAL 8028	White RAL 9016	Blue RAL 5017
<b>Right wall</b>	Green RAL 6018	Orange RAL 2004	Red RAL 3020	Black RAL 9005	Brown RAL 8028	White RAL 9016	Blue RAL 5017
<b>Floor</b>	Granite Grey Ochavo GR5	Granite black Zimbabwe GR12	Granite Grey Ochavo GR5	Granite black Zimbabwe GR12	Granite white crystal GR4	Granite white crystal GR4	Granite Grey Ochavo GR5
<b>Mirror</b>	No	No	No	No	No	No	No
<b>COP</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>Hand Rail</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>Profiles</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>Entrance</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel



Emotion



## EMOTION

A warm environment for you to discover in everyday life. Discover your lift from a different perspective: a space which looks like home.



Emotion - M100



Emotion - M200



Emotion - M300



Emotion - M400



Emotion - M500



Emotion - M600



Emotion - M700

		M100	M200	M300	M400	M500	M600	M700
<b>Ceiling</b>		BTL 10	BTL 01	BTL 12	BTL 09	BTL 02	BTL 11	BTL 02
<b>Left wall</b>	<i>Top</i>	Cream Melamine	Bronze mirror	Bronze mirror	Whitened Oak	Grey Melamine	Gold Pear K7573	White Melamine
	<i>Down</i>	Formica Wenge F1614	Stainless steel 441 SB	Formica Amber F1118	Whitened Oak	Grey Melamine	Gold Pear K7573	Formica Blue K1019
<b>Back wall</b>	<i>Top</i>	Bronze mirror	Bronze mirror	Bronze mirror	Formica Wenge F1614	Half silver	Half silver	Half silver
	<i>Down</i>	Bronze mirror	Stainless steel 441 SB	Formica Amber F1118	Formica Wenge F1614	Grey Melamine	Gold Pear K7573	Formica Blue K1019
<b>Right wall</b>	<i>Top</i>	Cream Melamine	Bronze mirror	Bronze mirror	Whitened Oak	Grey Melamine	Gold Pear K7573	White Melamine
	<i>Down</i>	Formica Wenge F1614	Stainless steel 441 SB	Formica Amber F1118	Whitened Oak	Grey Melamine	Gold Pear K7573	Formica Blue K1019
<b>Floor</b>		Altro sand 2051	Black Rubber G01	Granite Pink Porriño GR1	Altro sand 2051	Altro black 2058	Granite Grey Ochovo GR5	Altro black 2058
<b>Mirror</b>		Bronze mirror	Bronze mirror	Bronze mirror	No	Half silver	Bronze mirror	Half silver
<b>COP</b>		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>Hand Rail</b>		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>Profiles</b>		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
<b>Entrance</b>		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel





Open



## OPEN

An energetic design with contemporary accents. Colours and steel mixed to power up your day. New carefully selected materials and accessories to open a new decoration concept.



Open - O100



Open - O200



Open - O300



Open - O400



Open - O500



Open - O600



Open - O700

	O100	O200	O300	O400	O500	O600	O700
<b>Ceiling</b>	BTL 02	BTL 01	BTL 02	BTL 08	BTL 02	BTL 01	BTL 01
<b>Left wall</b>	Painted white RAL9016	Skinplate green U35	Skinplate red U55	Violet RAL 4005	Stainless Steel 441 SB	Skinplate cream U64	Blue RAL 5012
<b>Back wall</b>	Painted white RAL9016	Skinplate green U35	Skinplate red U55	Violet RAL 4005	Stainless Steel 441 SB	Skinplate cream U64	Blue RAL 5012
<b>Right wall</b>	Painted white RAL9016	Skinplate green U35	Skinplate red U55	Violet RAL 4005	Stainless Steel 441 SB	Skinplate cream U64	Blue RAL 5012
<b>Floor</b>	Altro white 2053	Black Rubber G01	Altro white 2053	Altro white 2053	Altro grey 2055	Altro sand 2051	Grey Rubber G02
<b>Mirror</b>	Half silver	Half silver	Half silver	Half silver	Full silver	Half silver	Half silver
<b>COP</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Black	Black
<b>Hand Rail</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Black	Black
<b>Profiles</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Black	Black
<b>Entrance</b>	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel

A wide range to choose your

# Doors

The compact design does not compromise a wide range of door installation: all elevator types with door series Hydra EVO, Augusta EVO, FINELINE®, Ecobus, and Swings series are available with 1 or 2 entrances (2-90° / 2-180°) option.



Augusta EVO



FINELINE®



Hydra EVO



Swing Doors

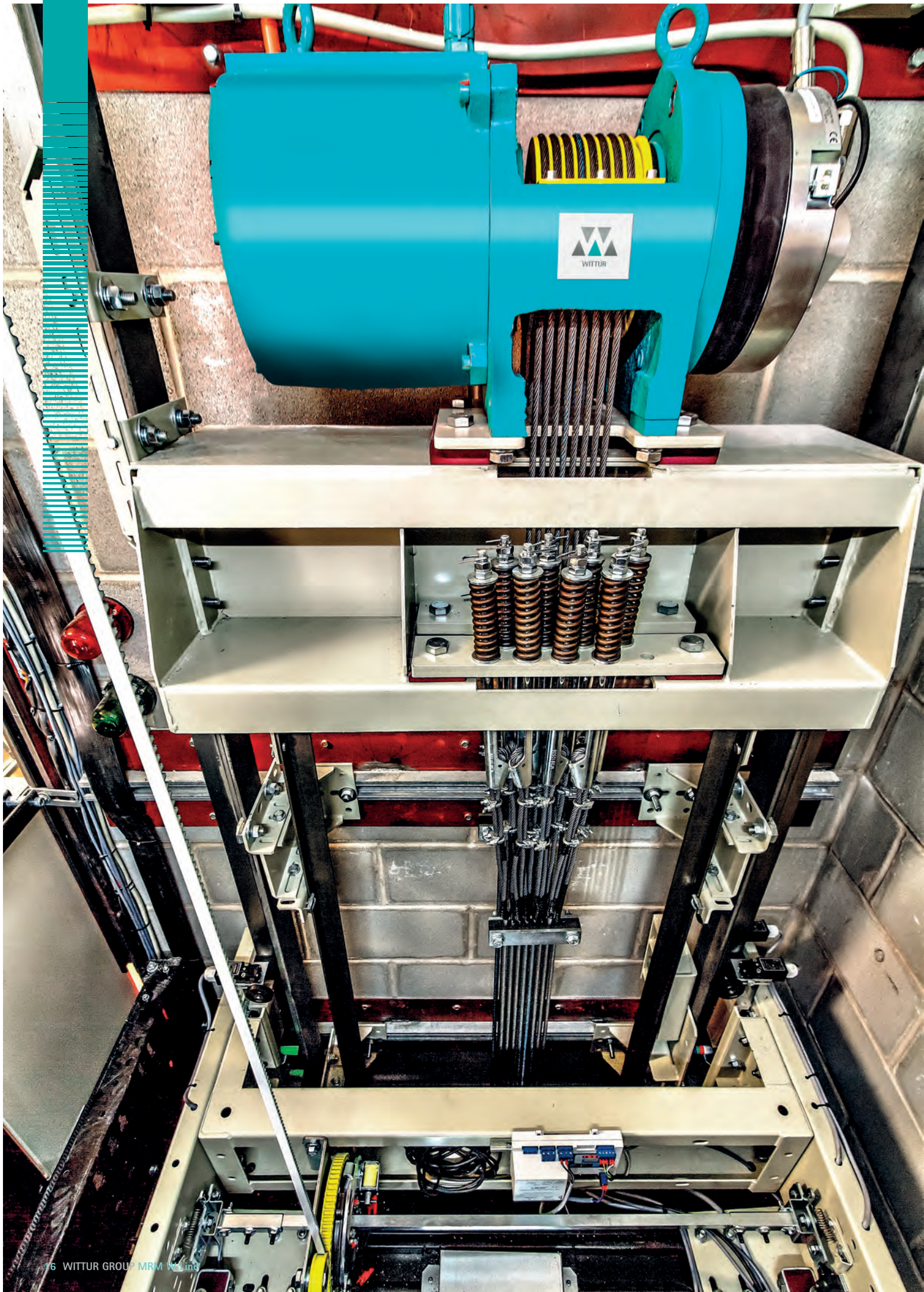




Special executions such as glass framed, full glass panels, panels with glass window or vandal resistant EN 81-71 doors are available upon request.

Special executions







Energy efficient and compact

# Drives



Elevator System	Rated load	Roping	Rated Speed	Drive type	Connection	TS
<b>MRM 320</b>	320 kg	1 : 1	1 m/s	WSG T0.3	cables	φ 160
<b>MRM 450</b>	450 kg	2 : 1	1 m/s	WSG T0.2	cables	φ 160
<b>MRM 630</b>	630 kg	2 : 1	1 m/s	WSG T0.3	cables	φ 160
<b>MRM 800</b>	800 kg	2 : 1	1 m/s	WSG S2.2	cables	φ 270
<b>MRM 1050</b>	1050 kg	2 : 1	1 m/s	WSG S2.2	cables	φ 270



WSG T0.2 / WSG T0.3



WSG-S2

The MRM W Line uses Wittur bedplates and WSG T-Series gearless drive, a drive designed for use in L-Frame elevators, which offers smaller dimensions through the use of smaller traction sheaves and reduced rope sections

Built to the highest standards

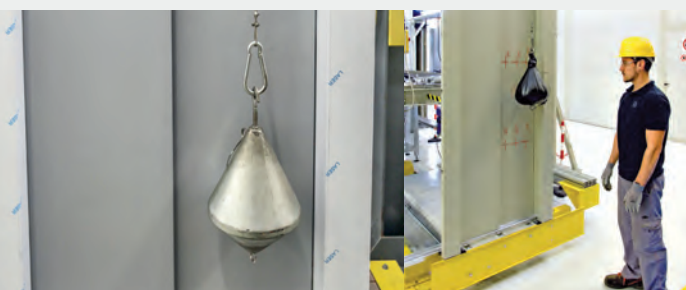
# Certifications & Safety

## Norm compliant

The MRM W Line fulfills all the requirements of the Lift Directive, as well as the standards EN 81-20/50, EN 81-28 (remote alarm on passenger and goods lifts) and EN 81-58 (landing door fire resistance test). Wittur additionally offers the option of supplying the MRM W Line to comply with EN 81-70 (designed to improve accessibility), EN 81-73 (behaviour of lifts in the event of fire) and EN 81-21 (reduced pit and head room).



	LD	EN 81-20/50	EN 81-28	EN 81-58	EN 81-70	EN 81-73	EN 12015	EN 12016	VDI 4707 ISO 25745	VDI 2566
Complete System MRM W Line	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gearless WSG-T0.x	✓	✓	n/a	n/a	✓	n/a	✓	✓	✓	✓
Gearless WSG-S2.2	✓	✓	n/a	n/a	✓	n/a	✓	✓	✓	✓
Controller E-Pack	✓	✓	optional	n/a	optional	on request	✓	✓	n/a	n/a
New Line Car	✓	✓	n/a	n/a	optional	n/a	n/a	n/a	✓	✓
Doors Augusta EVO	✓	✓	n/a	E120	optional	n/a	✓	✓	✓	✓
Doors Hydra EVO	✓	✓	n/a	E90	optional	n/a	✓	✓	✓	✓
Doors FINELINE®	✓	✓	n/a	E90	optional	n/a	✓	✓	✓	✓
Safety components	✓	✓	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



## Wittur Inside

The MRM W Line incorporates components manufactured by Wittur to the highest standards of quality, reliability and safety.



# Integrated drive solution



- **Compact design:** Elevator controller and motor inverter in one housing;
- **Fast installation:** Pre-arranged cabinet complete with all electrical components. Push buttons, cabling, shaft lighting, alarm telephone systems are included and pre-configured;
- **Fits in every shaft:** compact standard cabinet or cabinet integrated in front of landing door frame + small remote cabinet in the shaft;
- **Easy update:** Integrated SD card reader in the hand terminal;
- **Easy setting:** Automatic motor tuning, shaft learning features;
- **Remote control:** hand-held terminal with TFT color display connected via CAN bus. No PC or other equipment necessary for E-Pack installation;
- **5 pre-set comfort settings:** no complex acceleration and deceleration parameters, quick installation menu;
- **Easy check:** Automatic procedure to control shaft and car CAN bus, connected elements and encoder;
- **Updated manuals always available:** Manuals are stored in the firmware in several languages and can be accessed using the hand-held terminal;
- **Advanced features:** High stopping accuracy, direct landing, energy-saving mode, digital shaft learning, short floor travel without additional hardware, internal input EMI filter, internal DC choke, 230VAC safety circuit voltage;
- **E-Pack:** available for rated loads up to 1050 kg.





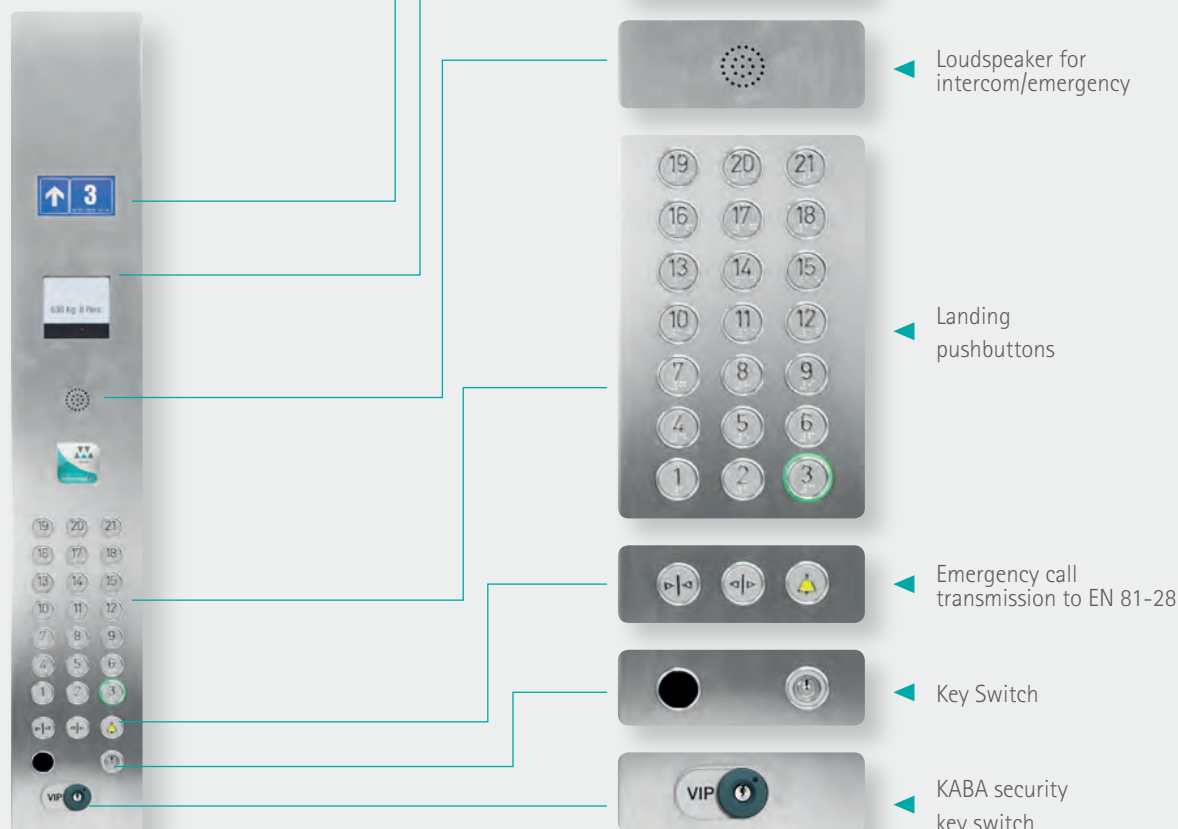






## COP

- Full height COP
- AISI 304 stainless steel structure



## External cabinet installation

- **Standard cabinet** (EN 81) positioned on the top floor, next to the landing door frame
- **RAL 7032** powder painted structure
- **AISI 304** stainless steel structure available as option dimensions: 400 x 280 mm, 2000/2100 mm height according to landing door height
- **Main supply:**  
3 x 400 VAC  $\pm$  15% / 3 x 230 VAC  $\pm$  15% / 1 x 230VAC  $\pm$  15% (only available for MRM 320)
- **Car/shaft power supply:**  
1 x 230 VAC  $\pm$  15%
- **Shaft temperature:**  
+5°C - +40°C
- **Protection** class IP20x zzz

# Cabling features

- Connection to overspeed governor and gearless machine
- Pre-wired CAN bus serial communication with fast connectors
- Connected LED energy-saving shaft lighting
- Inspection box on car roof with connections to shaft positioning switches, weighing device, limit switches
- Up to two independently operated car entrances
- Additional pit box for EN 81-21 also available as option

## Additional Controller modules

- re-levelling function and door pre-opening
- internal change-over relays for evacuation operation according to EN 81 73
- Inter-communication channel with cabinet
- additional inter-communication channel
- Y-Sense induction loop module for hearing impaired passenger compliant with EN 81-70
- emergency rescue with battery pack (5x12V Ah)

## Additional COP functions

- Voice synthesizer
- Induction loop system for hearing impaired passengers
- VIP key switch
- Key switch instead of push buttons
- EN 81-28 compliance with remote telephone unit



Remote control by CANbus hand-held terminal with TFT colour display and real time animation of the lift operations. Manuals are accessible from the unit.



## Displays



### Liftmedia

- 5.7" 320x240 px colour TFT
- CANbus connection
- Video playing capability
- High quality music playback
- Date, time, temperature display
- SD card support
- Voice announcements of floor messages and elevator events
- User-friendly visual editor for graphic contents with built-in graphic effects
- Supports mp3, mpeg, avi, wmv, flv, mp4, m4u, wav, jpg, bmp, gif, png



### LCD 240128

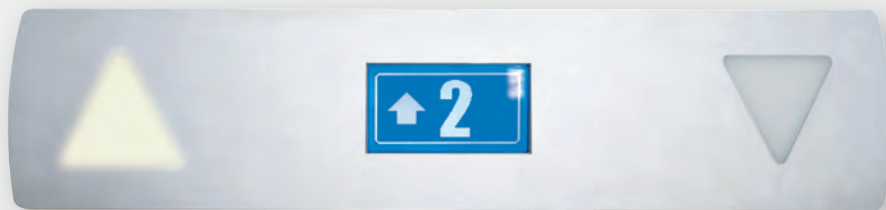
- 240 x 128 pixel resolution (114 mm x 64 mm active area) monochrome screen
- CANbus connection
- High quality music playback
- Date and time display
- User-friendly editor for graphic contents: static/animated arrows, logo, subtitles, floor indicator, "out of service" and "overload" pictures
- Screensaver mode to reduce power consumption



### BC-LCD

- for installation in the side frame of landing door

## LIP (Landing Indicator Panel)



Arrows

### ARROWS

- Arrows with BC-LCD must be installed for compliance with EN 81-70
- BC-LCD display can be installed as LIP in the side frame of all door types for EN 81-70 compliance

### SIDE ARROWS

- Must be installed for compliance with EN 81-70
- Liftmedia display must be used as COP for EN 81-70 compliance
- Liftmedia and LCD 240128 displays are also available as LIP (Hydra EVO and Pegasus doors only)

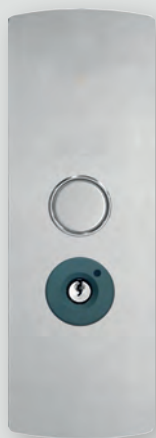


Side arrows

## Universal / Down collective LOP



E100



E101



E102



E103



E106



Special engraving of company logo available as an option



## Pushbuttons



### ROUND

Touch plate stainless steel, matt round, Ø28 mm, even embossing (laser-marked). Height of characters 15 mm, with Braille.



### EPSILON

Touch plate stainless steel, matt elliptic, 54.9 mm x 26.9 mm, convex embossing (lasermarked). Height of characters 15 mm, with Braille.

## Full collective LOP



E202



E200



E203



E204



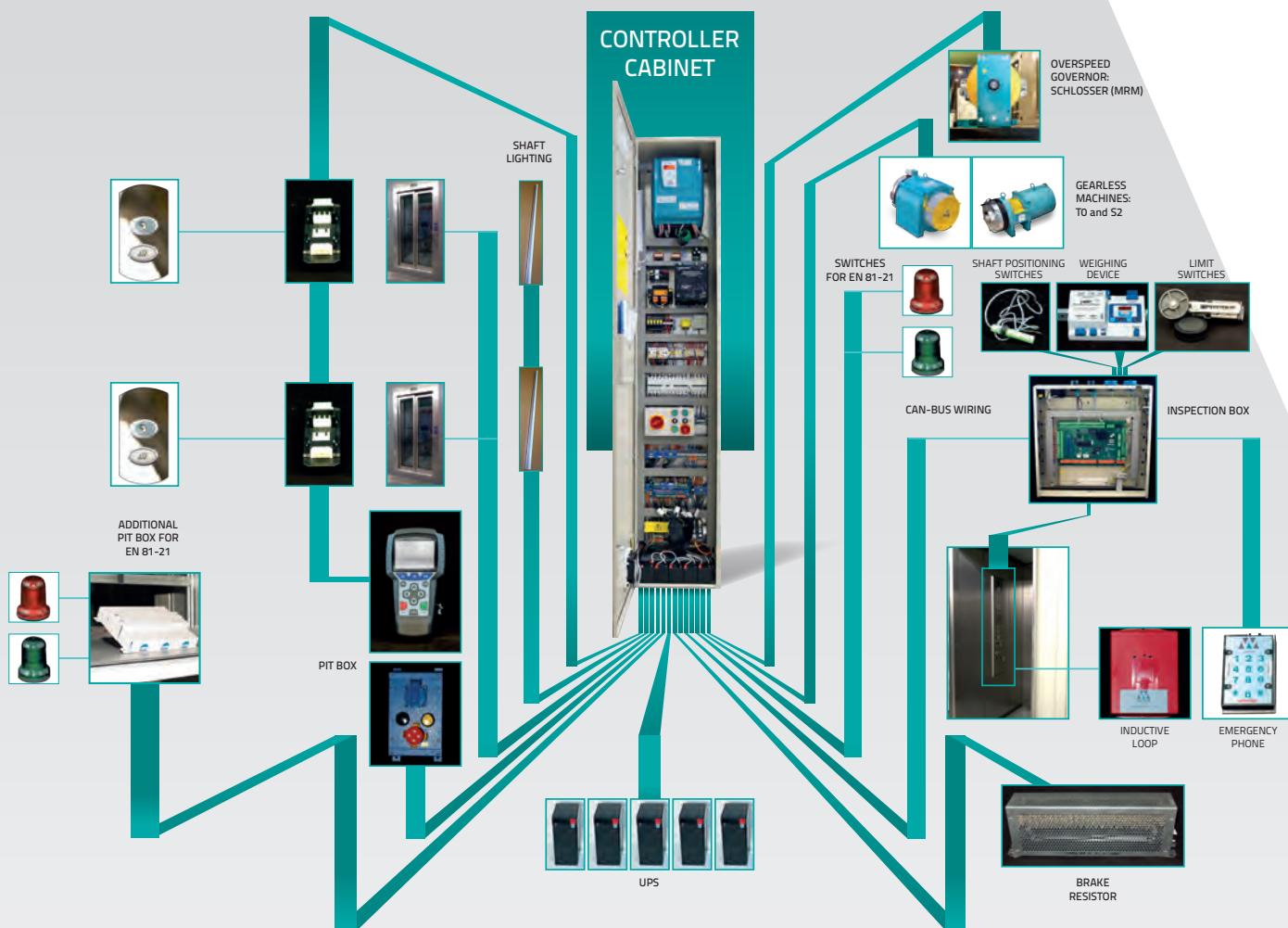
E201



E205







<b>Installation type</b>	Installation of new Wittur MRM W Line elevators
<b>Motor control</b>	Synchronous (gearless) machines
<b>Drive system</b>	Machine room less
<b>Cabinet installation</b>	Inside the shaft or outside the shaft
<b>Speed range</b>	1 m/s
<b>Group operation</b>	Up to 2 lifts
<b>Number of floors</b>	Up to 10 floors
<b>Car wiring</b>	With CAN bus serial communication (standard)
<b>Landing wiring</b>	With pre-wired CAN bus serial wiring
<b>Car positioning</b>	With incremental or absolute motor encoder
<b>Door operation</b>	2 independently operated car entrances
<b>Evacuation operation</b>	By using a 1-phase 230V UPS and battery
<b>Motor feedback</b>	Incremental encoders (5V TTL or 10-30V HTL)

<b>Automatic settings</b>	Auto-tuning shaft learning control gain calculation
<b>Handset (AREM)</b>	User-friendly color TFT display with multilingual interface Control the system from anywhere via CAN bus
<b>Software update (Firmware)</b>	Fast and reliable updating system via AREM at one time
<b>E-PACK peripherals</b>	Inspection box controller
	Car panel controller
	Control panel connection board
	ENCA unit to get absolute encoder data
	ENCI unit to get incremental encoder data
	Door contact bridging board
	Landing call unit
	Landing call and indicator unit with dot matrix display
	Landing call and indicator unit with LCD display

# MRM W Line

<b>Rated Load</b>	kg	<b>320</b>			<b>450</b>			<b>630</b>			<b>800</b>			<b>1050</b>		
<b>Suspension</b>		1:1			2:1			2:1			2:1			2:1		
<b>Number of persons</b>	no	4			6			8			10			13		
<b>Rated Speed</b>	m/s	1,0			1,0			1,0			1,0			1,0		
<b>Max. travel height</b>	m	30			30			30			30			30		
<b>Number of stops</b>	no	10			10			10			10			10		
<b>Entrances</b>		Single	Double 180°	Double 90°	Single	Double 180°	Double 90°	Single	Double 180°	Double 90°	Single	Double 180°	Double 90°	Single	Double 180°	Double 90°

## Shaft (Standard)

<b>Shaft width b3</b>	mm	1250	1230	1275	1450	1450	1555	1550	1550	1655	1900	1900	1995	1650	1650	2045
<b>Shaft depth d2</b>	mm	1250	1390	1300	1440/1490	1540	1440	1640	1740	1640	1640	1740	1640	2340	2440	1840
<b>Headroom (min.)</b>	mm	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400
<b>Pit (min.)</b>	mm	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030

## Car

<b>Car width b2</b>	mm	900	820	820	1000			1100			1350			1100	1100	1400
<b>Car depth d1</b>	mm	1000	1050	1050	1200/1250	1200	1200	1400			1400			2100	2100	1600
<b>Clear car height</b>	mm	2100 / 2200			2100 / 2200			2100 / 2200			2100 / 2200			2100 / 2200		

## Doors

<b>Door width</b>	mm	700			800			900			900			900		
<b>Door depth (optional)</b>	mm	2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)		

## Shaft (reduced pit)

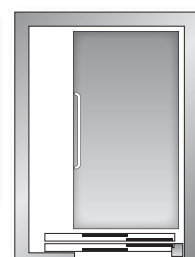
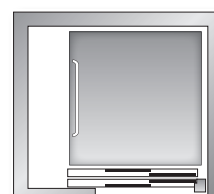
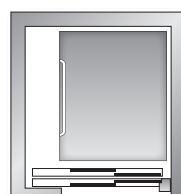
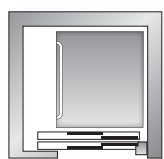
<b>Shaft width b3</b>	mm	1250	1230	1275	1450	1450	1555	1550	1550	1655	1900	1900	1995	1650	1650	2045
<b>Shaft depth d2</b>	mm	1250	1390	1325	1440/1490	1540	1440	1640	1740	1640	1640	1740	1640	2340	2440	1840
<b>Headroom (min.)</b>	mm	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400
<b>Pit (min.)</b>	mm	350	350	450	380	380	480	380	380	480	450	450	550	450	450	550

## Car

<b>Car width b2</b>	mm	900	820	820	1000			1100			1350			1100	1100	1400
<b>Car depth d1</b>	mm	1000	1050	1050	1200/1250	1200	1200	1400			1400			2100	2100	1600
<b>Clear car height</b>	mm	2100 / 2200			2100 / 2200			2100 / 2200			2100 / 2200			2100 / 2200		

## Doors

<b>Door width</b>	mm	700			800			900			900			900		
<b>Door depth (optional)</b>	mm	2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)		







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Rated Load	kg	320			450			630			800			1050		
Entrances		Single	Double 180°	Double 90°	Single	Double 180°	Double 90°	Single	Double 180°	Double 90°	Single	Double 180°	Double 90°	Single	Double 180°	Double 90°

### Shaft (reduced headroom)

Shaft width b3	mm	1330	1260	1335	1450	1450	1555	1550	1550	1655	1900	1900	1995	1650	1650	2045
Shaft depth d2	mm	1250	1390	1300	1440/1490	1540	1440	1640	1740	1640	1640	1740	1640	2340	2440	1840
Headroom (min.)	mm	2600	2600	2600	2600	2600	2600	2600	2600	2600	2800	2800	2800	2800	2800	2800
Pit (min.)	mm	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030

### Car

Car width b2	mm	900	820	820	1000			1100			1350			1100	1100	1400
Car depth d1	mm	1000	1050	1050	1200/1250	1200	1200	1400			1400			2100	2100	1600
Clear car height	mm	2100 / 2200						2100 / 2200			2100 / 2200			2100 / 2200		

### Doors

Door width	mm	700			800			900			900			900		
Door depth (optional)	mm	2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)		

### Shaft (reduced pit and headroom)

Shaft width b3	mm	1330	1230	1355	1450	1450	1555	1550	1550	1655	1900	1900	1995	1650	1650	2045
Shaft depth d2	mm	1250	1460	1325	1440/1490	1540	1440	1640	1740	1640	1640	1740	1640	2340	2440	1840
Headroom (min.)	mm	2600	2600	2600	2600	2600	2600	2600	2600	2600	2800	2800	2800	2800	2800	2800
Pit (min.)	mm	350	350	450	380	380	480	380	380	480	450	450	550	450	450	550

### Car

Car width b2	mm	900	770	820	1000			1100			1350			1100	1100	1400
Car depth d1	mm	1000	1120	1050	1200/1250	1200	1200	1400			1400			2100	2100	1600
Clear car height	mm	2100 / 2200			2100 / 2200			2100 / 2200			2100 / 2200			2100 / 2200		

### Doors

Door width	mm	700			800			900			900			900		
Door depth (optional)	mm	2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)			2000 (2100)		

### Drives

Gearless drive	WSG T0.3			WSGT0.2			WSGT0.2			WSG S2.2			WSG S2.2		
Nominal power	2,2			3,4			4,4			7,4			7,4		
Nominal current	8,5			10			12,5			16,5			16,5		
Starts per hour	180			180			180			180			180		

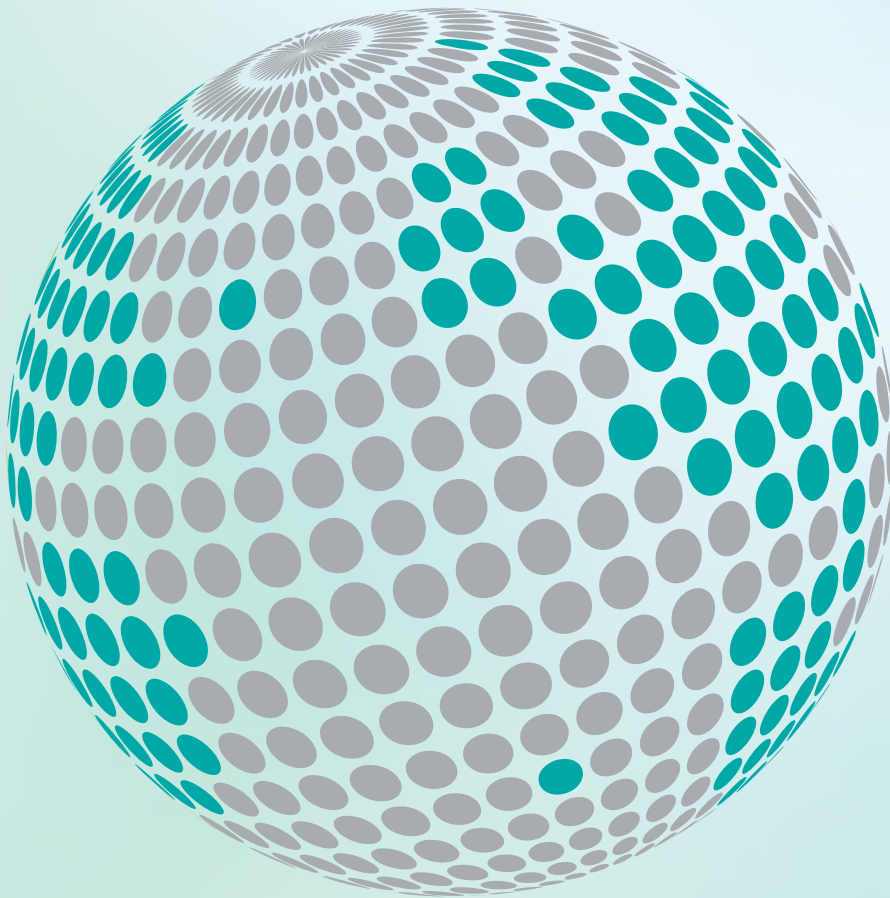
\* marked dimensions correspondence together

Dimensions with Augusta EVO doors acc. to Planning Manual. Car dimensions are available in 10 mm steps upon request. Technical data are subject to alteration

Dimensions with Hydra EVO doors acc. to Planning Manual. Car dimensions are available in 10 mm steps upon request. Technical data are subject to alteration



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