



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

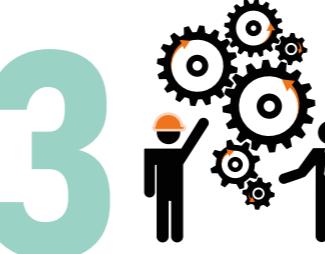
**COMPLETE  
ELEVATOR SYSTEMS**



## Your Solutions Partner for Elevator System

### Complete Elevator Systems



- **1 Engineering**
- **2 3D Design**
- **3 Manufacturing**
- **4 Entegre Quality System**
- **5 Transporting**
- **6 Easy Setup**
- **7 Satisfaction**

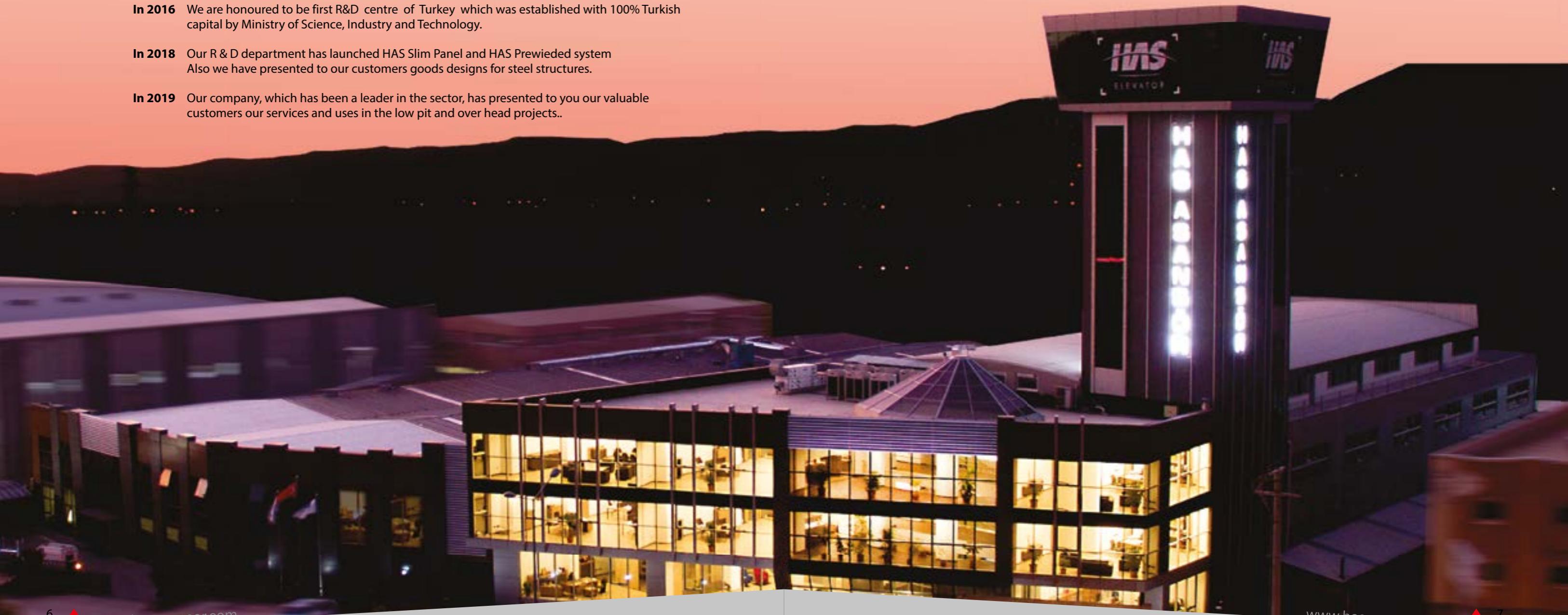
# All you need is in the package...

## Anything else?



- In 1980** HAS Elevator started its business journey by producing rubber and plastic components in a small workshop.
- In 1987** HAS Elevator became pioneer manufacturer by producing first spring rubber buffers which have design belongs to HAS Elevator.
- In 1994** HAS Elevator continued its business activities by producing cabin and cabin frame. Besides the domestic market, we started to export our products abroad.
- In 1995** We established our first factory which have 7200 square meter working place with expert staff, and increased both product range and production capacity.
- In 1997** Has Elevator vocational high school was established in Bursa, Turkey as a first vocational school to educate students about elevators, the school still have 1000 students and fulfil needs of a qualified workforce of HAS Elevator and Turkish elevator industry as well.
- In 2008** We moved to our new factory which have 17.000 square meter production plant with more than 150 expert staff, and international sales representatives, capacity to export more than 60 countries and became a company which have international standards, ISO 9001/2015 quality management system, ISO 14001 environment management system, and ISO 27001 information security system.
- In 2015** We are honoured to be first R&D centre of Turkey which was established with 100% Turkish capital by Ministry of Science, Industry and Technology.
- In 2018** Our R & D department has launched HAS Slim Panel and HAS Prewiced system  
Also we have presented to our customers goods designs for steel structures.
- In 2019** Our company, which has been a leader in the sector, has presented to you our valuable customers our services and uses in the low pit and over head projects..

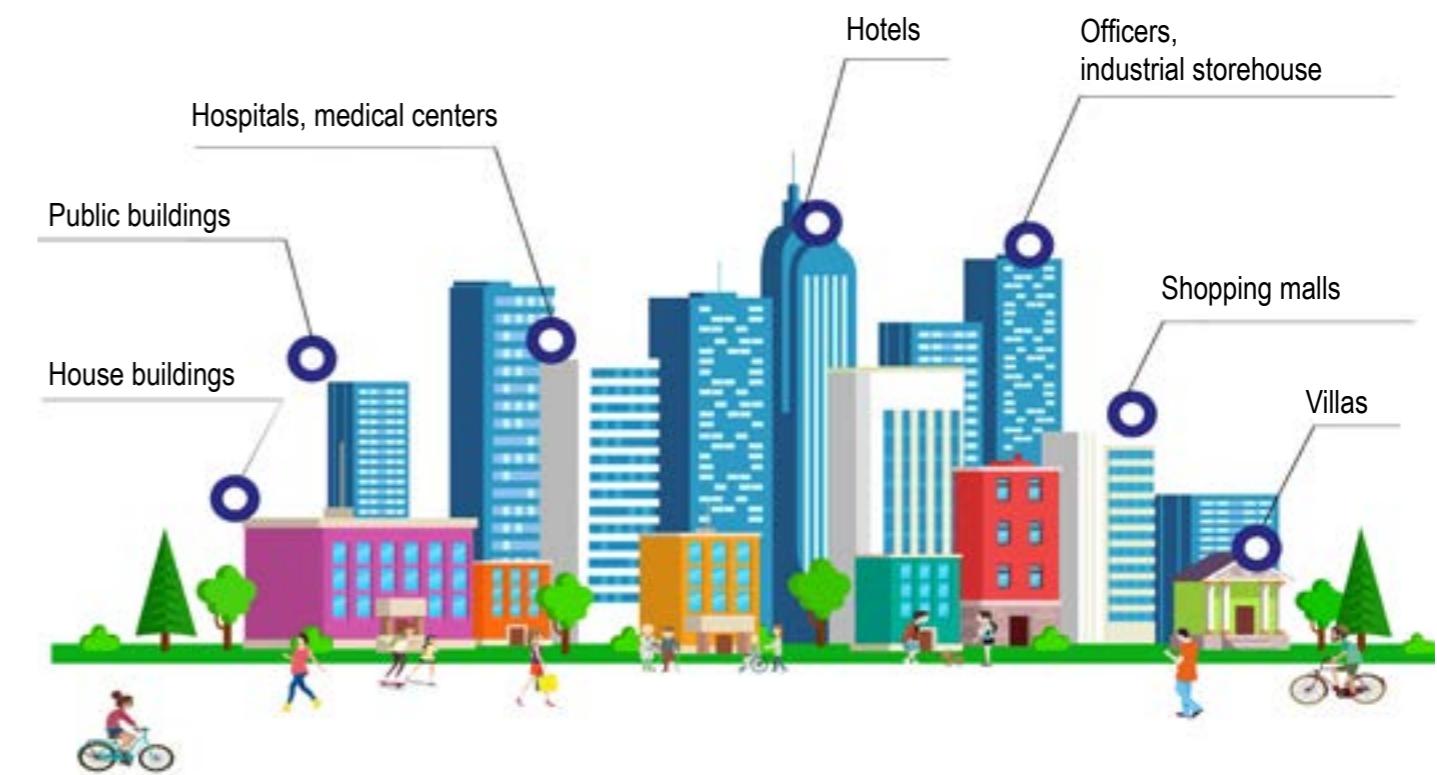
**Since our foundation, we have been recognized as pioneer company for 37 years in elevator industry, we keep continue to serve you with our expert staff and to produce complete elevators and elevator components for domestic and international market within global standards.**



# Our Skills

- ▶ **Since 1980**
- ▶ **17.500 m<sup>2</sup>** Production Area
- ▶ **Export to** 75 Countries
- ▶ **85.000** pcs per year Semi - Automatic Door
- ▶ **44.000** pcs per year Automatic Door
- ▶ **2.400** pcs per year Complete Elevator System
- ▶ **2.500** pcs per year Controller
- And **165** professionals work to make better for our clients

# Our Solutions



# Why do you choose HAS Elevator System ?

## Because

We are a group of experts who work in first R&D center of Turkish elevator industry which have 100% Turkish capital, always with you to find innovative solutions and provide sufficient service.

We continue to provide best solutions by producing elevators which are suitable for every single shaft instead of providing shafts according to elevators.

We are always your solution partner with our 3D drawings which are designed for your shafts.

We always provide you complete elevators both economic and advanced technology.

We do not fulfill only your needs, we meet your special requests with our elevators which are in different design and color.  
You should know that we are able to supply any type of elevator components that you may need for a complete elevator with competitive prices.

All elevator safety components are manufactured according to TSE, EN, GOCT standards.

We make your work easier and faster by providing installation manuals and documents.

We respect humanity and nature by producing low energy consuming, quiet, and safe products.

We serve our customers in global standards with help of our multilingual customer services.

HAS Elevator is always ready to provide you technical support with its expert staff whenever you need.

Delivery time of HAS complete elevators.

We need only four weeks to prepare your orders.

Our warranty period.

HAS complete elevators and spare parts are covered by 2-year manufacturer's warranty.



## Technical assistance

Our team multilingual engineers will assess your own technicals in how to install our elevator systems. Communication can be telephone, video conference, Skype or in situ.

## Technical training

Among the services, we offer our expertise to train your Supervisors, Technical Directors, Operators e.t.c. We can supply deliver training plans tailored to your team at our headquarters by video conference or on location in your country.

## Advantages of Complete Elevator Systems

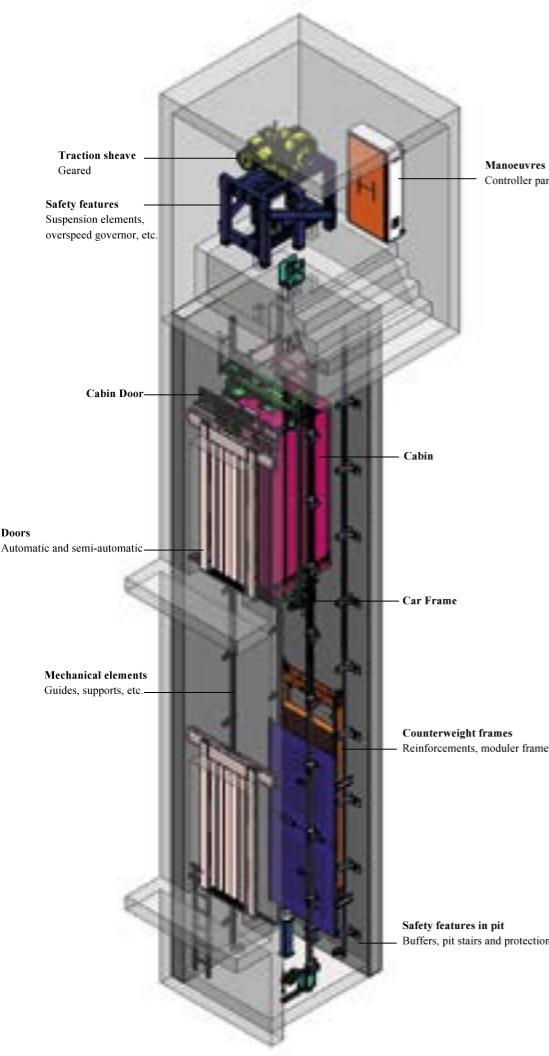
- ✓ According to your shaft dimensions designed elevator type and size.
- ✓ Low Energy Consumption
- ✓ Easy installation
- ✓ 7/24 Multilingual technical support
- ✓ Excellent travel comfort
- ✓ Silent, safety
- ✓ Eco efficient performance
- ✓ According to current standards



GENERAL CHARACTERISTICS								
Rated Load (kg)	320	450	630	800	1000	Up to 2000		
Passenger (max)	4	6	8	11	13	Up to 26 Passengers		
Rated Speed (m/s)	1 m/s			1.6 m/s - 2 m/s				
Maximum Travel	90 m			90 m				
Maximum Stops Number	30			30				
Car Entrances	Single / Double			Double Entrance (180°-90°)	Triple Entrance			
Drive System	Electrical							
Control	Low energy consumption ARKEL & Mikrolift e.t.c control, with CAN BUS and prewiring system communication VVVF							
Door Type	Automatic Side Opening / Automatic Central Opening / Semi Automatic							
Door Width (mm)	600 - 700 - 800 - 900 - 1000 - 1100 - 1200 - 1300 - 1400 e.t.c				Special			
Door Height (mm)	2000				Up to 2300			
Car Dimensions (mm)	See on the drawings				Special			
Car Height (mm)	2100				Up to 2400			

Note : Reference only, for detail information, please contact to HAS Elevator

### With a machine room



### Technical Specifications - MR

#### Traction equipment

- Geared machine with worm gear
- 1:1 and 2:1 configuration with lower suspension or in cantilever

#### Control

- Closed and Open loop, variable frequency regenerative drive
- The Advantages of the With Machine Room Elevator

#### Systems

- With latest control techniques provides high sensitivity positioning
- This system easily mounted
- Lifting unit with superior performance provides quiet and comfortable movement
- Allows for fast and efficient installation
- Optimum performance
- Minimum Over Head size
- High capacity
- Manual brake control

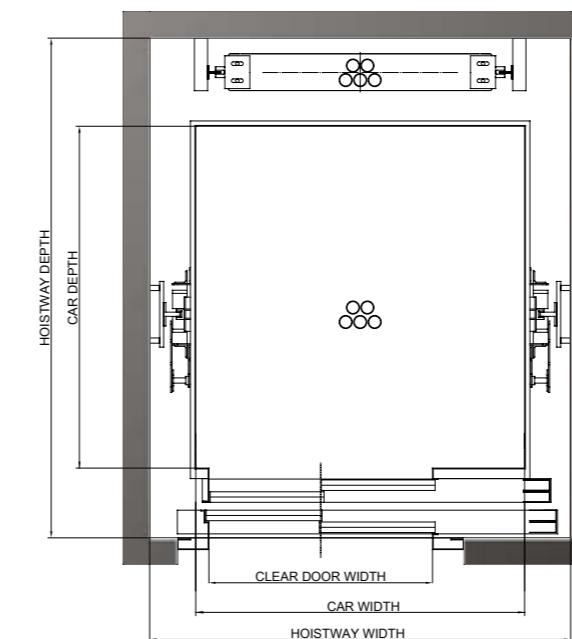
### MR LIFTS

CAPACITY / LOAD		CAR				SHAFT			
PEOPLE	LOAD (kg)	WIDHT (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDHT (mm) SW	DEPTH (mm) SD	PIT (mm)	HEADROOM (mm)
4	320	1050	900	700	1	1400	1500	1350	3800
		1000	1250	700		1350	1850	1100	3400
6	450	1100	1100	800	1	1450	1700	1100	3800
		1250	1300	900		1600	1900		3400
8	630	1100	1400	800	1	1500	2000	1100	3400
		1350	1400	900		1700	2000		3400
10	800	1400	1600	900	1	1750	2200	1100	3400
		1400	1600	900		1750	2200		3400
13	1000	1400	1600	900	1	1750	2200	1100	3400

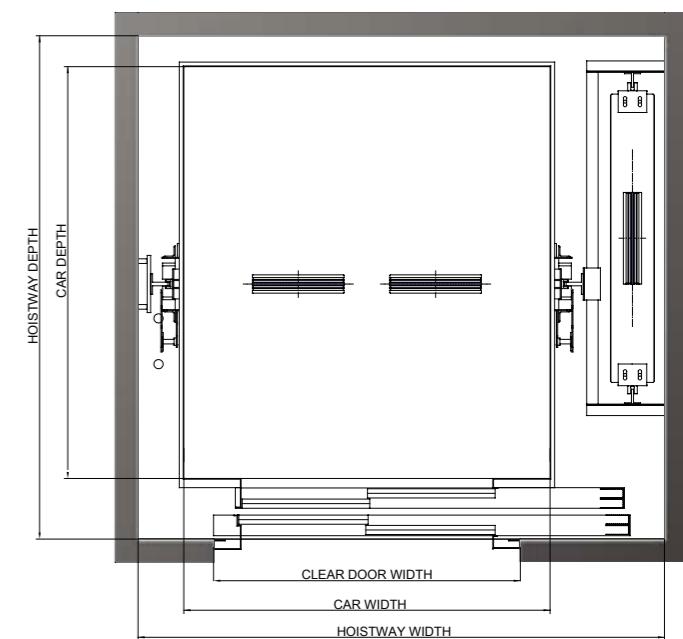
Note : Reference only, for detail information, please contact to HAS Elevator

CAPACITY / LOAD		CAR				SHAFT			
PEOPLE	LOAD (kg)	WIDHT (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDHT (mm) SW	DEPTH (mm) SD	PIT (mm)	HEADROOM (mm)
15	1125	1250	2100	1000	1	1900	2500	1100	3400
		1500	1700	1200		2150	2100		
17	1275	1400	2100	1200	1	2100	2500	1100	3400
		1600	1800			2300	2200		
21	1600	1400	2400	1200	1	2100	2800	1100	3400
		1600	2000	1300		2300	2400		
26	2000	1500	2700	1300	1	2300	3100	1100	3400
		1700	2400	1400		2500	2800		

Note : Reference only, for detail information, please contact to HAS Elevator



1:1 Gear drawing  
Automatic side opening doors

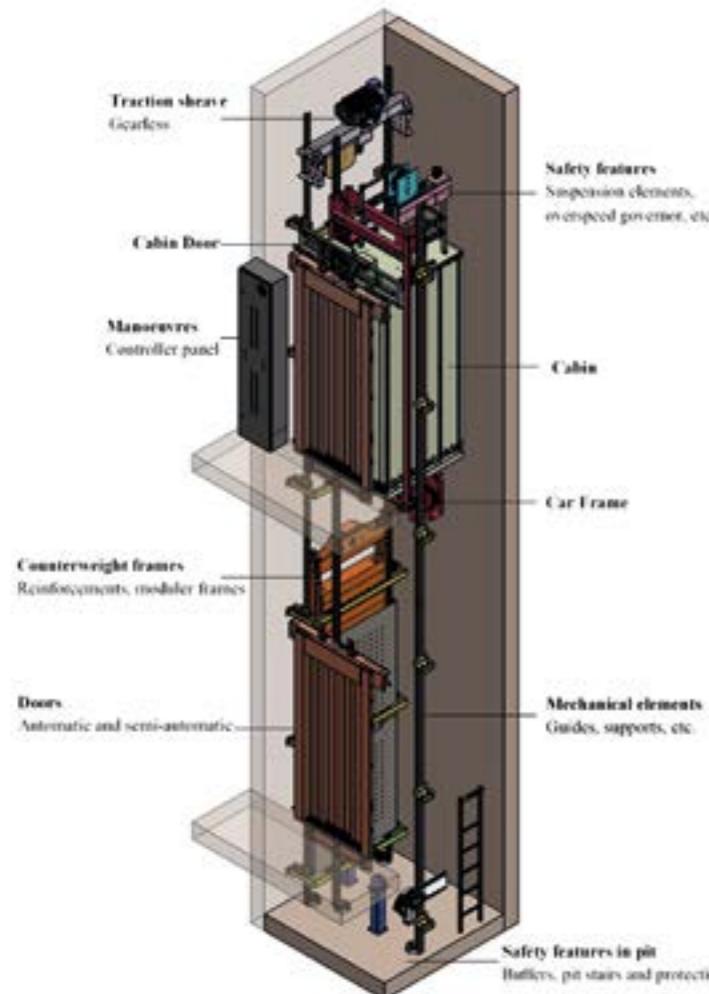


2:1 Gear drawing  
Automatic side opening doors

MACHINE ROOM - LESS ( MRL )									
CAPACITY / LOAD		CAR			SHAFT				
PEOPLE	LOAD (kg)	WIDHT (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDHT (mm) SW	DEPTH (mm) SD	PIT (mm)	HEADROOM (mm)
4	320	900	1050	800	1	1500	1450	1250	3400
					180°	1500	1600	1450	
					1	1600	1650	1250	
					180°	1600	1800	1400	
6	450	1000	1250	800	1	1700	1800	1250	3400
					180°	1700	1950	1300	
					1000	1	1900	1900	
					900	180°	1900	2050	
8	630	1100	1400	900	1	1700	1800	1250	3450
					180°	1700	1950	1300	
					1100	1	2000	2500	
					1400	180°	2000	1950	
10	800	1300	1500	1250	1	1700	2000	2000	3450
					900	180°	1900	2050	
					1100	1	2000	1800	
					900	180°	2000	1950	
13	1000	1100	1600	900	1	1700	2500	2650	3450
					180°	1700	2000	2150	
					1400	1	2000	2000	
					180°	2000	2150		

Note : Reference only, for detail information, please contact to HAS Elevator

### Without a machine room



### Technical Specifications MRL

#### Traction equipment

- Gearless machine with permanent magnet motor
- 2:1 configuration with lower suspension or in cantiliver Control
- Closed loop, variable frequency regenerative drive

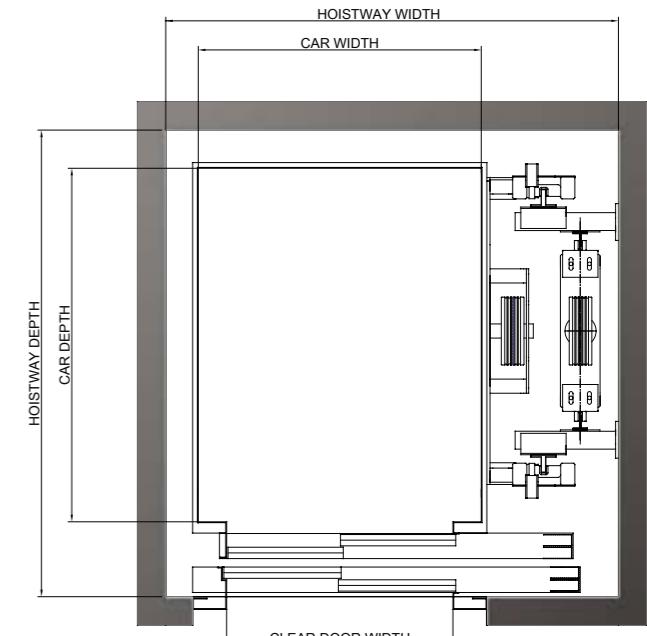
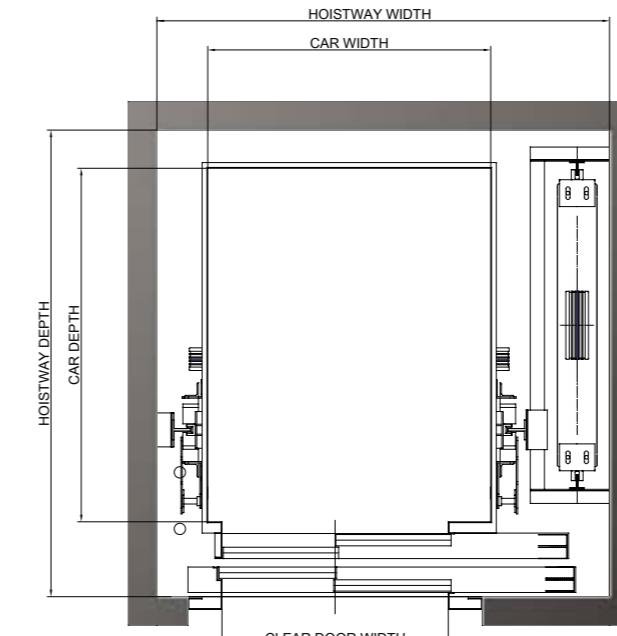
#### The Advantages of the Machine Roomless Elevator Systems

- With gearless motor's economic size provides save on the volume of the building
- With latest control techniques provides high sensitivity positioning
- This system easily mounted to all kinds of buildings
- Lifting unit with superior performance provides quiet and comfortable movement
- Consumes less energy and draws less starting current
- Allows for fast and efficient installation
- Optimum performance

### MRL - L TYPE LIFTS

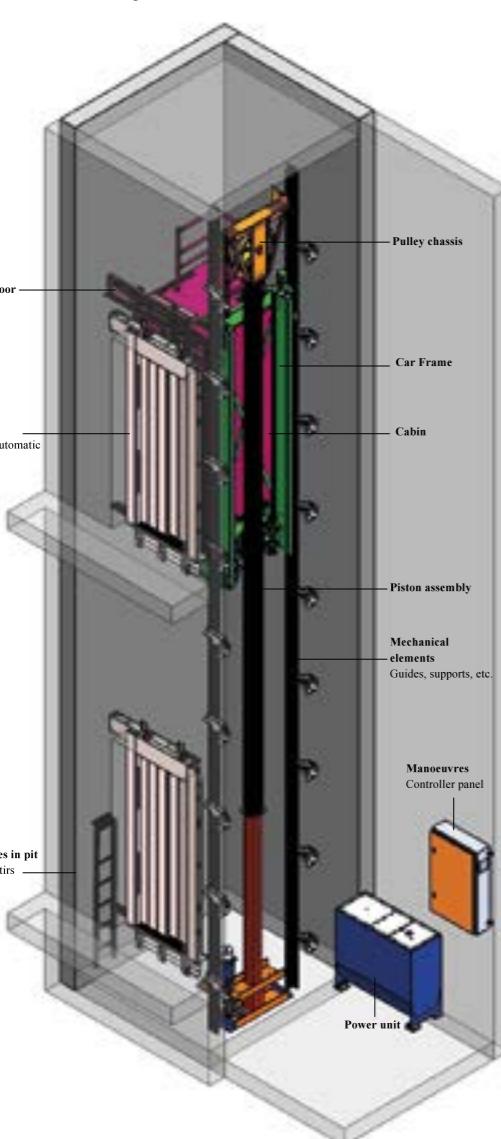
CAPACITY / LOAD		CAR			SHAFT				
PEOPLE	LOAD (kg)	WIDHT (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDHT (mm) SW	DEPTH (mm) SD	PIT (mm)	HEADROOM (mm)
4	320	900	1050	800	1	1500	1450	1250	3400
		180°	1500	1600	1450				
		1	1600	1650	1250				
		180°	1600	1800	1400				
6	450	1000	1250	800	1	1600	1650	1450	3400
		180°	1600	1800	1400				
		1	1700	1800	1250				
		180°	1700	1950	1300				
8	630	1100	1400	900	1	1700	1800	1800	3400
		180°	1700	1950	1300				
		1	1800	2000	1800				
		180°	1800	2050	1700				
10	800	1250	1500	1250	1	1700	1800	1800	3400
		900	180°	1900	2050				
		1100	1	2000	1800				
		900	180°	2000	1950				
13	1000	1300	1600	900	1	1700	2500	2650	3450
		180°	1700	2000	2150				
		1400	1	2000	2000				
		180°	2000	2150					

2:1 Gearless drawings (MRL)  
Automatic side opening door



GENERAL CHARACTERISTICS								
Rated Load (kg)	320	450	630	800	1000	Up to 5000		
Passenger (max)	4	6	8	11	13	Up to 66 Passengers		
Rated Speed (m/s)	Up to 1							
Maximum Travel (m)	Up to 15							
Maximum Stops Number	6							
Car Entrances	Single		Double Entrance (180°-90°)		Triple Entrance			
Drive System	Hydraulic, mechanical valves			Hydraulic, low energy consumption electronic valves				
Control	Low energy consumption ARKEL & Mikrolift e.t.c control, with CAN BUS communication valves							
Door Type	Automatic Side Opening		Automatic Central Opening		Semi Automatic			
Door Width (mm)	600 - 700 - 800 - 900 - 1000-1100-1200-1300 e.t.c.				Special			
Door Height (mm)	2000				Up to 2300			
Car Dimensions (mm)	See on the drawings				Special			
Car Height (mm)	2100				Up to 2400			

Note : Reference only, for detail information, please contact to HAS Elevator



### Technical Specifications Hydraulic Elevator

#### Traction equipment

- Pump unit with asynchrone motor

#### Control

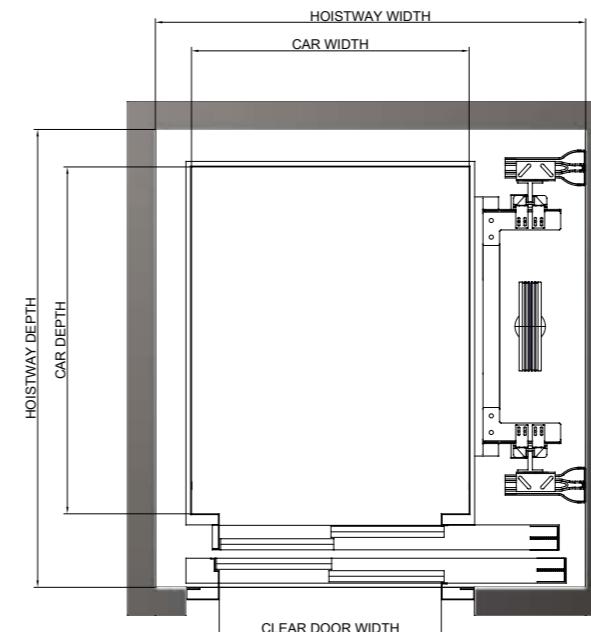
- Closed and Open loop, variable frequency regenerative drive

#### The Advantages of the Hydraulic Elevator Systems

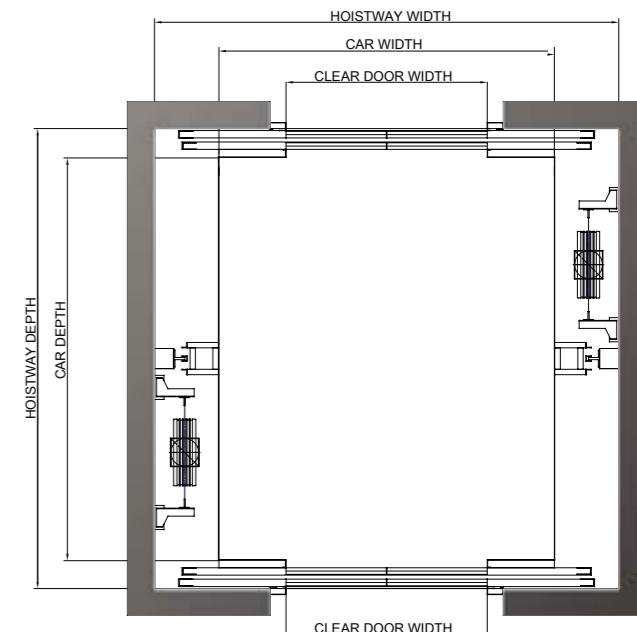
- With latest control techniques provides high sensitivity positioning
- This system easily mounted to all kinds of buildings
- Lifting unit with superior performance provides quiet and comfortable movement
- Allows for fast and efficient installation
- Optimum performance
- PIT and Over Head minimum
- High load capacity

HYDRAULIC LIFTS									
CAPACITY / LOAD		CAR				SHAFT			
PEOPLE	LOAD (kg)	WIDHT (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDHT (mm) SW	DEPTH (mm) SD	PIT (mm)	HEADROOM (mm)
4	320	900	1000	700	1	1450	1400	1100	3400
		1100			180°	1650			
		900	1000		90°	1600	1400		
6	450	1000	1250	800	1	1550	1650	1800	3400
		1100	1400		180°	1800			
		900			90°	1700	1650		
8	630	1100	1400	900	1	1650	1800	1950	3400
		1200			180°	1950			
		900	1300		90°	1800	1800		
10	800	1100	1500	1000	1	1850	1900	2050	3400
		1300			180°	2050			
		900	2100		90°	2000	1900		
13	1000-1	1100	2100	900	1	1650	2500	2650	3400
		1300			180°	2650			
		900	2100		90°	2100	2000		
13	1000-2	1400	1600	1100	1	1950	2150	2000	3400
		1600	2100		180°	2150			
		900			90°	2100	2000		

Note : Reference only, for detail information, please contact to HAS Elevator



Hydraulic lift drawing  
Automatic side opening doors



Hydraulic lift drawing double entrance 180  
Automatic central opening doors

# Bill of Materials

## MRL Automatic Door

MRL SYSTEM SUPPLY PRODUCT					COMPARTMENT	HAS ELEVATOR CONTROL
Guide Rails	CW Rail Rails	Rail Clips	Guide Rail Brackets CW Brackets	Steel Wall Plug	RAIL GROUP	✓
	Infrared Sensor	Landing Door (Mechanism + Panels)	Cabin Door (Operator + Panels)		DOOR GROUP	✓
	Safety Gear	OSG	Machine + Machine Plate		MACHINE GROUP	✓
		Revision Box	Controller		CONTROLLER GROUP	✓
Electronik Over Load	Seperator	Cabin	Weights	CW Frame	CABIN & FRAMES GROUP	✓
				Landing Operation Panel (LOP)	Cabin Operation Panel (COP)	OPERATING PANEL GROUP
	Rope Clips	Rope Bottles	Rope for CW	Rope for Cabin	ROPE GROUP	✓
Spiral Tube	Cable Ring	Cable Tube	NYAF Cable	Flexible	CABLE GROUP	✓
Illumination	Terminal Strip	Lubricator Oil Collecting Cup	Limit Switch Switch Link Rod	Buffer + Buffer Base	PIT GROUP	✓
	Terminal Strip	Wood Plug	Handgloves	Isolation Band	SECONDARY ELEMENTS	✓
Remarks:						

## MRL Semi-Automatic Door

MRL SYSTEM SUPPLY PRODUCT					COMPARTMENT	HAS ELEVATOR CONTROL
Guide Rails	CW Rail Rails	Rail Clips	Guide Rail Brackets CW Brackets	Steel Wall Plug	RAIL GROUP	✓
	Door Glass	Dashpot	Lirpomp	Landing Door (Mechanism + Panels)	Cabin Door (Operator + Panels)	DOOR GROUP
			Safety Gear	OSG	Machine + Machine Plate	MACHINE GROUP
				Revision Box	Controller	CONTROLLER GROUP
Electronik Over Load	Seperator	Cabin	Weights	CW Frame	CABIN & FRAMES GROUP	✓
				Landing Operation Panel (LOP)	Cabin Operation Panel (COP)	OPERATING PANEL GROUP
	Rope Clips	Rope Bottles	Rope for CW	Rope for Cabin	ROPE GROUP	✓
Spiral Tube	Cable Ring	Cable Tube	NYAF Cable	Flexible	CABLE GROUP	✓
Illumination	Terminal Strip	Lubricator Oil Collecting Cup	Limit Switch Switch Link Rod	Buffer + Buffer Base	PIT GROUP	✓
	Terminal Strip	Wood Plug	Handgloves	Isolation Band	SECONDARY ELEMENTS	✓
Remarks:						



# Other Elevator Systems

**Car Lift**



**Service Lift**

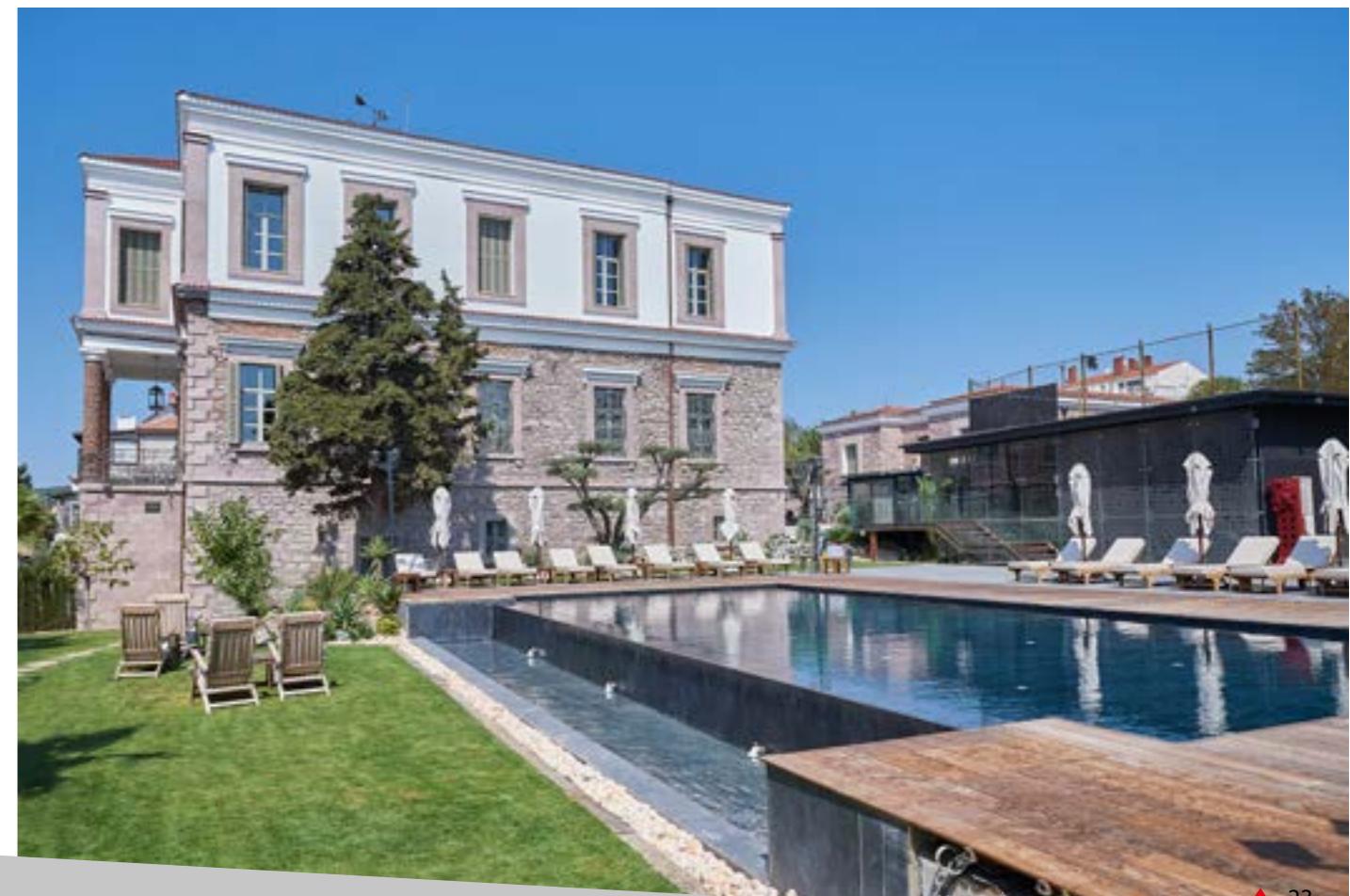
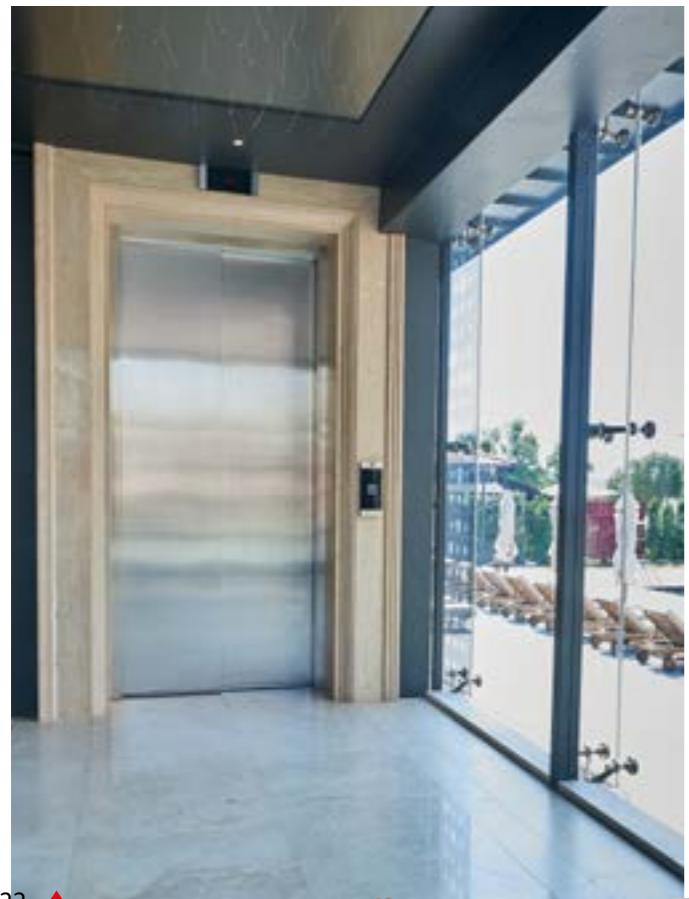


**Panoramic Lift**





## Private House





## Metro Stations





**HAS LAS VEGAS**

*"Feel the energy of Las Vegas"*

- \* Full- Length Mirror
- \* Granite Floor
- \* Laser Cut Ceiling
- \* Hidden Lighting (Floor- Ceiling)
- \* Handle A Single Row
- \* EN81-20/50

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**HAS GALATA TOWER**

*"The intersection point of past and future"*

- \* Custom Design Glass
- \* 4+4 Laminated
- \* Granite Floor
- \* Laser Cutting Panels
- \* Panel Hidden Lighting
- \* Handle A Single Row
- \* EN81-20/50



**HAS HARMONY**

*“The rhythm of life”*

- \* Panels A Special Form
- \* Full- Length Mirror
- \* Granite Floor
- \* Laser Cut Ceiling
- \* Hidden Lighting (Floor- Ceiling)
- \* Handle A Single Row
- \* EN81-20/50



**HAS MOONLIGHT**

*“As the light of emotions  
that you miss”*

- \* Custom Painted Panels
- \* Super Mirror Accessories
- \* Granite Floor
- \* Half Length Mirror
- \* Laser Cut Ceiling
- \* Handle A Single Row
- \* EN81-20/50

## CABINS



### HAS CASHMERE

*“Feeling above the clouds”*

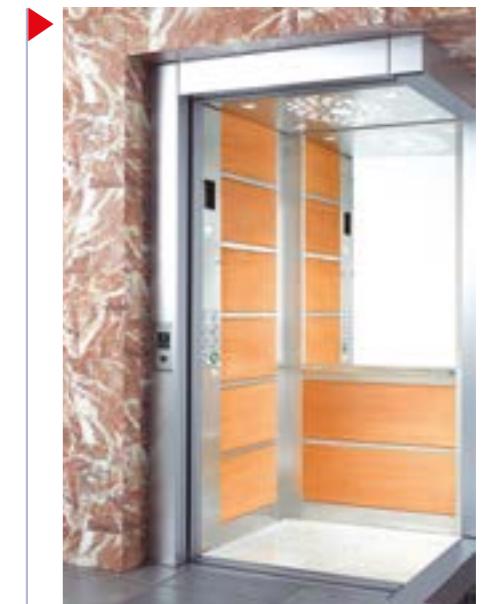
**4+4 Colored Glass Shape Panels**  
**Granite Floor**  
**Full- Length Mirror**  
**Laser Cut Ceiling**  
**Design Handrail**  
**EN81-20/50**



*Postforming laminate panels &  
Satin stainless accessories  
Handle a single row  
Half-length mirror  
PVC floor  
Laser cut ceiling*



*Laminate panels  
Satin stainless steel accessories  
Handle a single row  
Half - lenght mirror  
PVC floor  
Laser cut ceiling*



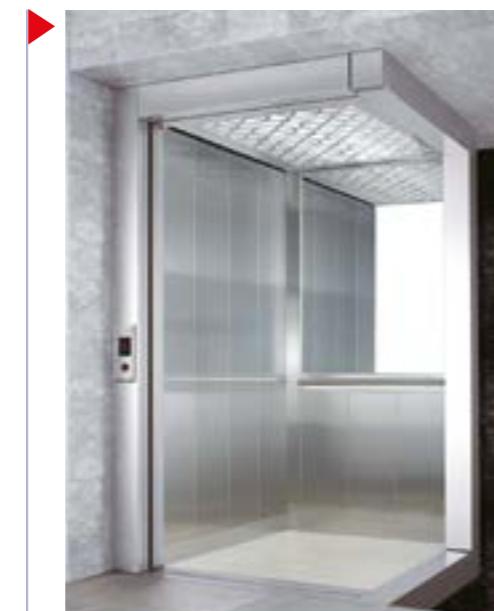
*Postforming laminate panels  
Satin stainless accessories  
Handle a single row  
Half-length mirror  
PVC floor  
Laser cut ceiling with spotlights*



*Stainless steel and laminated glass panel  
Handle a single row  
Natural granite floor  
Laser cut ceiling with spotlights  
EN 81-20/50*

**CABINS****HAS 160**

Satin stainless panels &  
Mirror stainless steel accessories  
Handle a single row  
Full-length mirror  
Natural granite floor  
Laser cut ceiling  
EN 81-20/50

**HAS 220**

Satin stainless steel panels & accessories  
Handle a single row  
Half-length mirror  
PVC floor  
Laser cut ceiling  
EN 81-20/50

**HAS 330**

Decorative wood panels &  
Super mirror stainless steel  
Handle a single row  
Full-length mirror  
Natural granite floor  
Laser cut ceiling + with spotlights

**HAS 360**

Satin stainless steel panels & accessories  
Handle a single row  
Half-length mirror  
Natural granite floor  
Ceiling with spotlights  
EN 81-20/50

**HAS 300**

ESB painted sheet metal panels  
Handle a single row  
Half - lenght mirror  
PVC floor  
Panels a special form  
Laser cut roof

**HAS 300F**

ESB painted sheet metal panels  
Aluminum checker plate floor  
Laser cut ceiling  
Emergency exit stairs (Fire Department)  
Emergency trap door  
EN 81-20/50

**HAS 400**

Decorative with painted wood panels  
Gold mirror accessories  
Handle a single row  
Natural granite floor  
Decorative wood ceiling with spotlights

**HAS 460**

ESB painted sheet metal panels  
Super mirror stainless steel accessories  
Handle a single row  
Full-length mirror  
Decorative PVC floor  
Ceiling with spotlights  
EN 81-20/50

## DOORS



HAS STANDARD RAL 7032  
Semi Auto Landing Door



HAS 10 Copper Scrap  
Semi Auto Ferforge Landing Door



HAS 20 Stainless Steel Hairline  
Automatic Landing Door



HAS 21 Stainless Steel Hairline  
Automatic Glass Landing Door

## MACHINE MOTORS



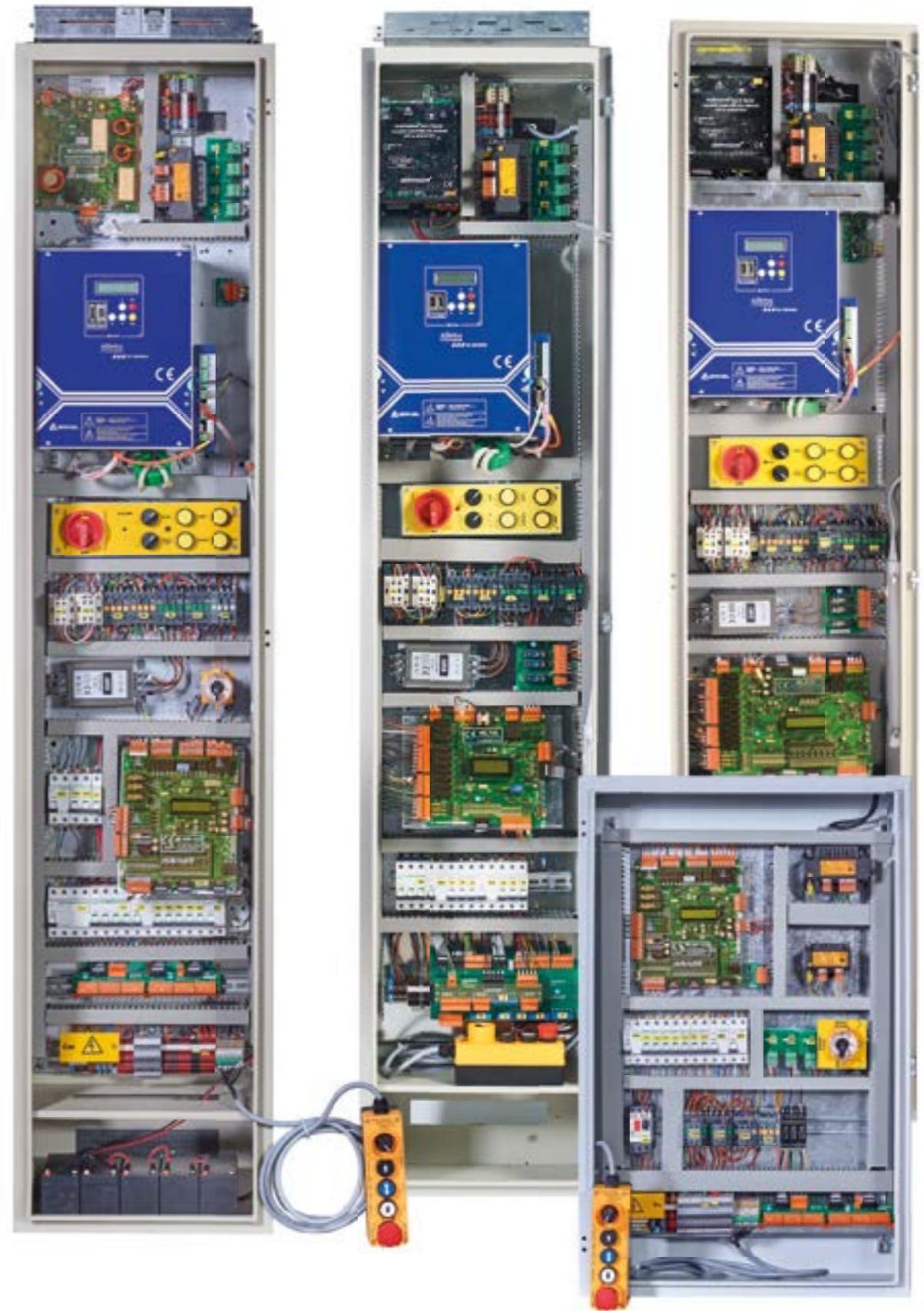
### New Generation Machine Plate P12



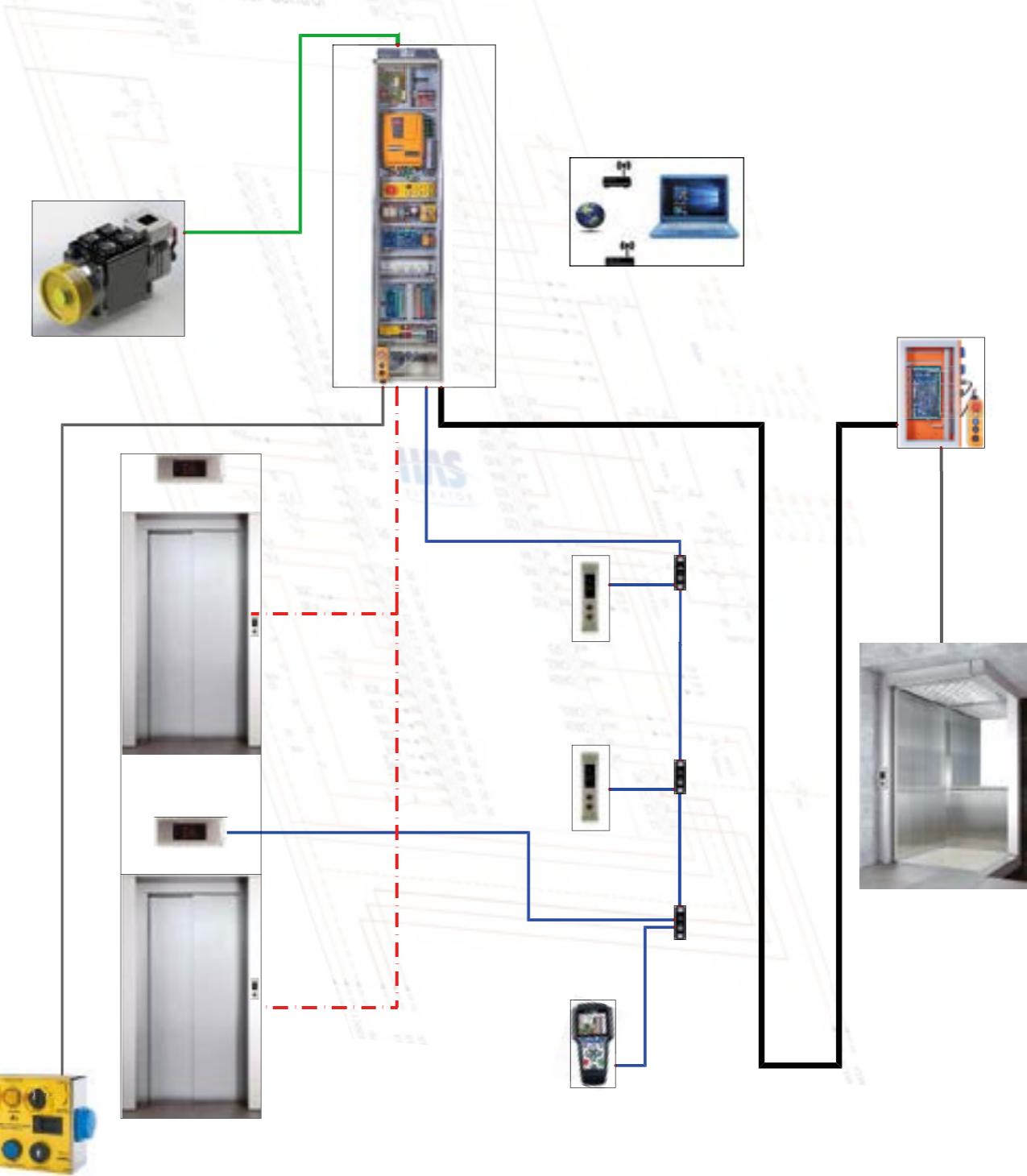
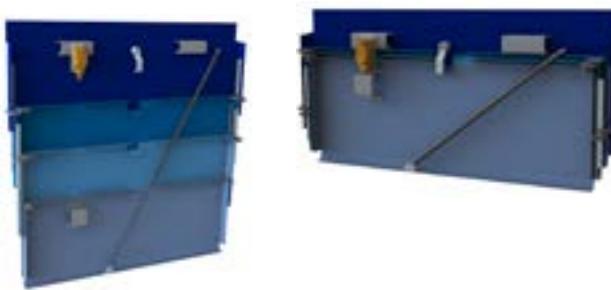
#### Innovative Aspects

- Modular design suitable for many machines
- Providing all connections with bolts only
- Anti-vibration rubber
- Lightweight design
- Reduction of production times
- Reduction of the number of scrap parts
- Easy assembly
- Storable product group

## CONTROL PANELS



## PRE-WIRED SYSTEM



## BUTTONS



SL205.ARDOT



SP205.DM430



7205.ROT-2Y



PANEL B



PANEL SX



PANEL S



SL220.ARDOT



SP220.DM430



7220ROT-2Y



FHP 2000 DM230



FHP 2000 MLTFT B



FHP 2000 MLTFT W



FHP 2000 LCD1055

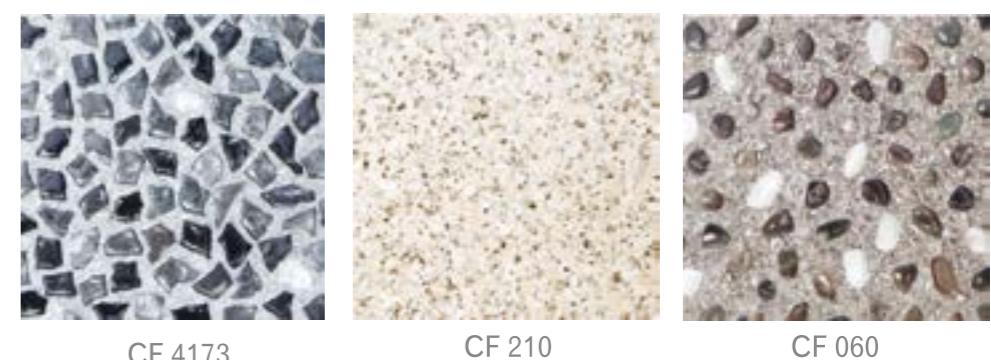
## FLOORS



Granite Floors



PVC Floors

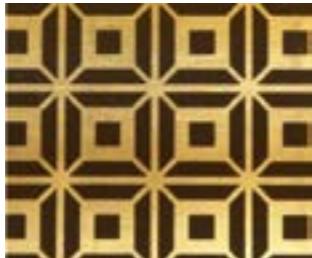


## DECORATIVE STAINLESS

Decorative Stainless



HS mirror ti-gold



HS mirror ti-gold (cx41)



HS mirror ti-gold (cx82)



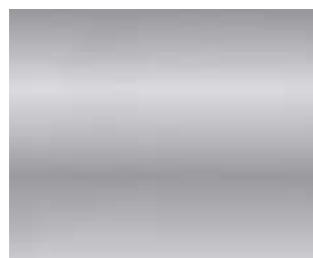
HS mirror ti-gold (cx26)



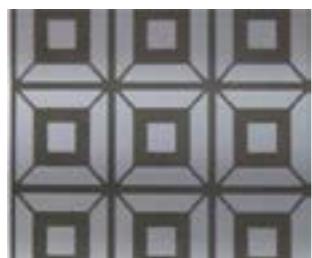
HS mirror ti-gold (cx37)



HS mirror ti-gold (cx08)



HS mirror



HS mirror (cx41)



HS mirror (cx82)



HS mirror (cx26)



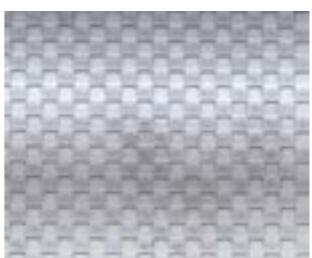
HS mirror (cx37)



HS mirror (cx03)



HS mirror (cx58)



HS mirror (cx99)

# IMS Elevator R&D Centre

Since our foundation we keep continue to be pioneers in elevator industry for 37 years. In 2016, we established first R&D centre of Turkish Elevator industry with 100% Turkish capital with purpose of identifying unmet customers' needs and serving elevator sector.

Besides having more than 20 engineers in R&D centre, we are always striving to produce much better products with help of university and academic staff.

HAS Elevator R&D centre has only one goal; to offer best service than expected us for our customers.





**IMS Elevator exports to  
7 continents & 75 countries**

# All you need is in the package... Anything else?



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