



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

**COMPLETE ELEVATOR SYSTEMS**





# Complete Elevator Systems





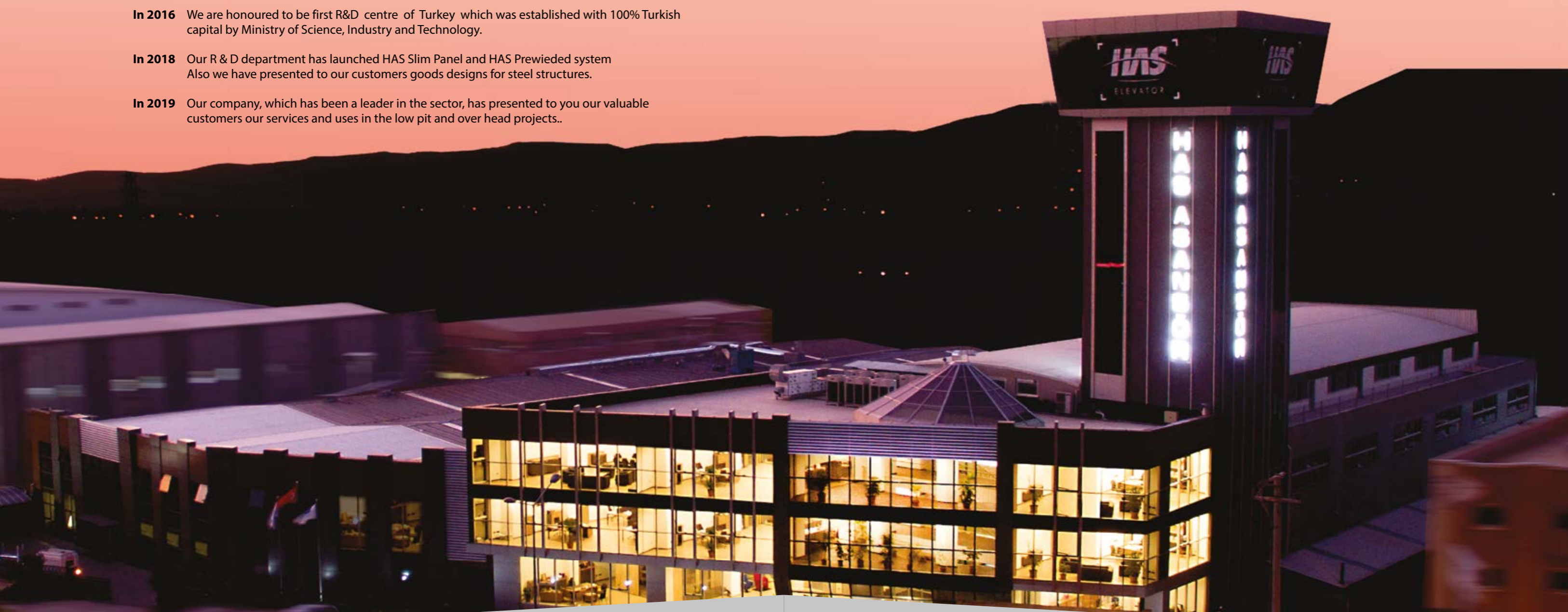
# All you need is in the package... Anything else?





- 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 2015** 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 2016** 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 Prewieded 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..

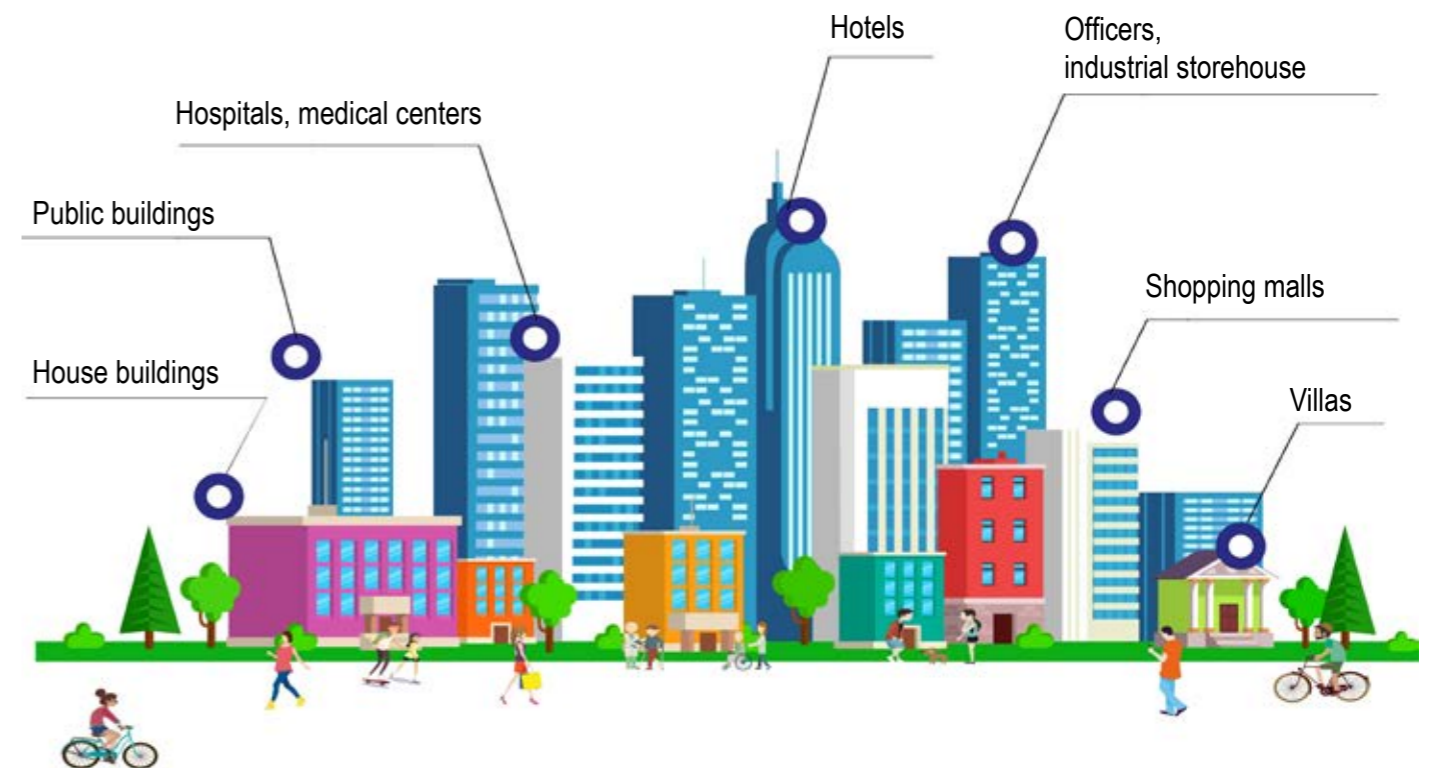
**Since our foundation, we have been recognized as pioneer company for 37 years in elevator industry, we keep continue to serve you with our expert staff and to produce complete elevators and elevator components for domestic and international market within global standards.**



# 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 by 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 Widht ( 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

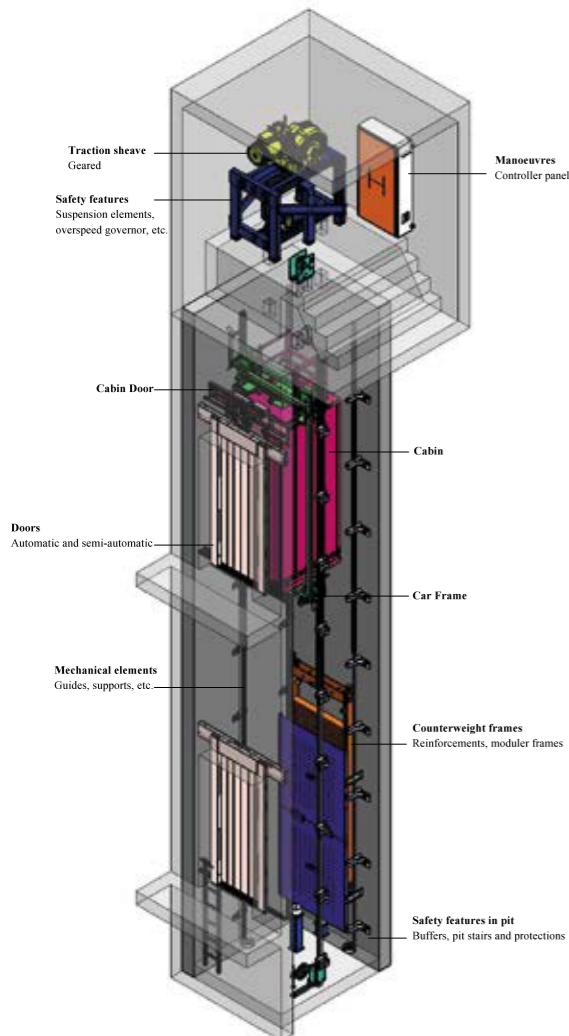
WITH MACHINE ROOM 1/1									
CAPACITY / LOAD		CAR				SHAFT			
PEOPLE	LOAD ( kg )	WIDHT ( mm ) CW	DEPTH ( mm ) CD	DOOR ( mm )	N° ENTRANCE	WIDHT ( mm ) SW	DEPTH ( mm ) SD	PIT ( mm )	HEADROOM (mm)
4	320	1050	900	700	1	1400	1500	1350	3800
6	450	1000	1250	700	1	1350	1850	1100	3400
		1100	1100	800		1450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

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

WITH MACHINE ROOM 2/1									
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		
		1600	1800			2300	2200		
21	1600	1400	2400	1200	1	2100	2800		
		1600	2000			1300	2300		
26	2000	1500	2700	1300	1	2300	3100		
		1700	2400			1400	2500	2800	

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

**With a machine room**



**Technical Specifications - MR**

**Traction equipment**

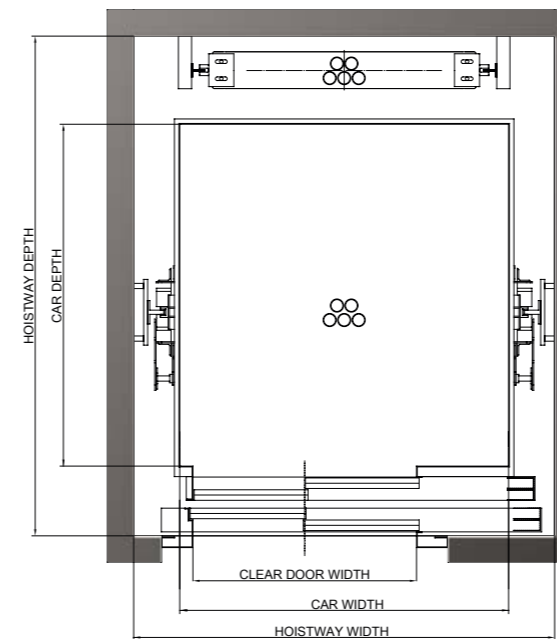
- Geared machine with worm gear
- 1:1 and 2:1 configuration with lower suspension or in cantiliver

**Control**

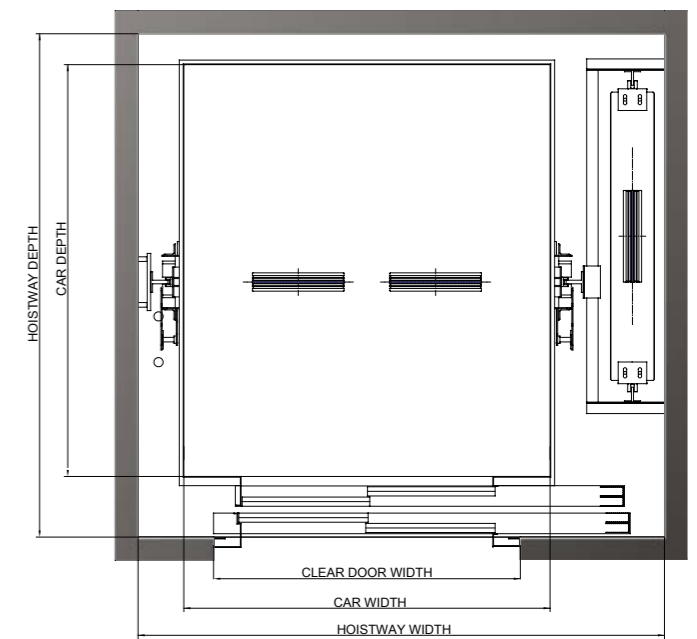
- Closed and Open loop, variable frequency regenerative drive
- The Advantages of the With Machine Room Elevator

**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
- Manuel brake control



1:1 Gear drawing  
Automatic side opening doors



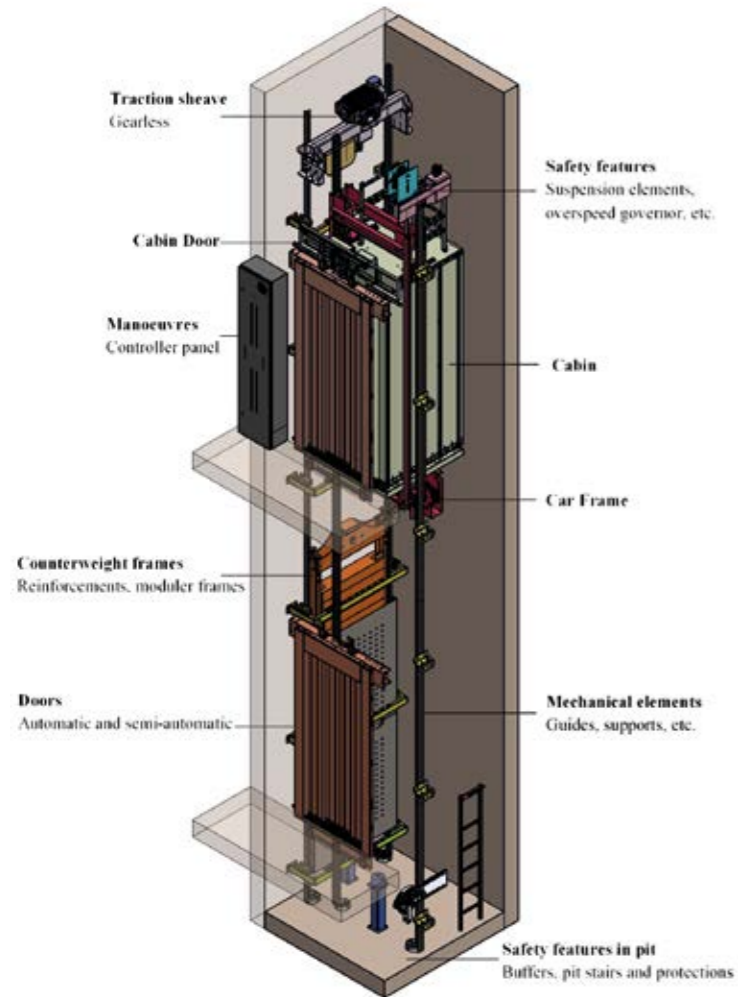
2:1 Gear drawing  
Automatic side opening doors



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			
6	450	1000	1250	800	1	1600	1650	1250			
					180°	1600	1800	1400			
8	630	1100	1400	900	1	1700	1800	1250			
					180°	1700	1950	1300			
10	800	1300	1500	1000	1	1900	1900	1250			3450
				900	180°	1900	2050				
				1100	1	2000	1800				
				900	180°	2000	1950				
13	1000	1100	2100	900	1	1700	2500	1250			3450
				180°	1700	2650					
				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**

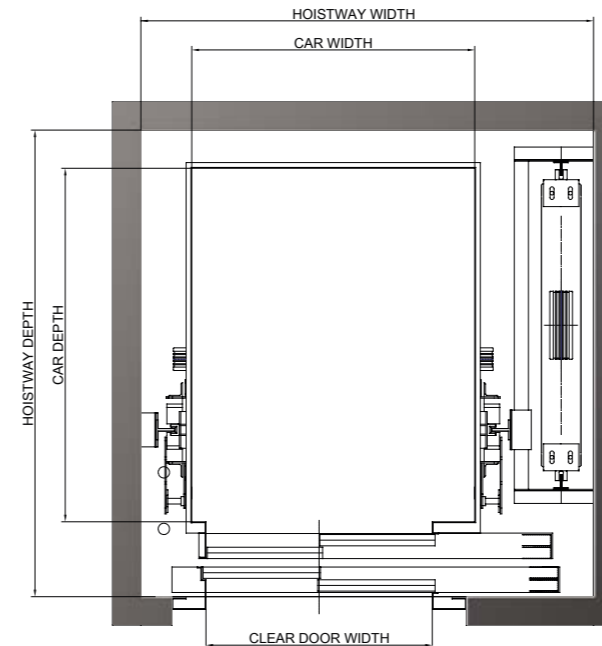
- Gearless machine with permanent magnet motor
- 2:1 configuration with lower suspension or in cantilever Control
- Closed loop, variable frequency regenerative drive

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

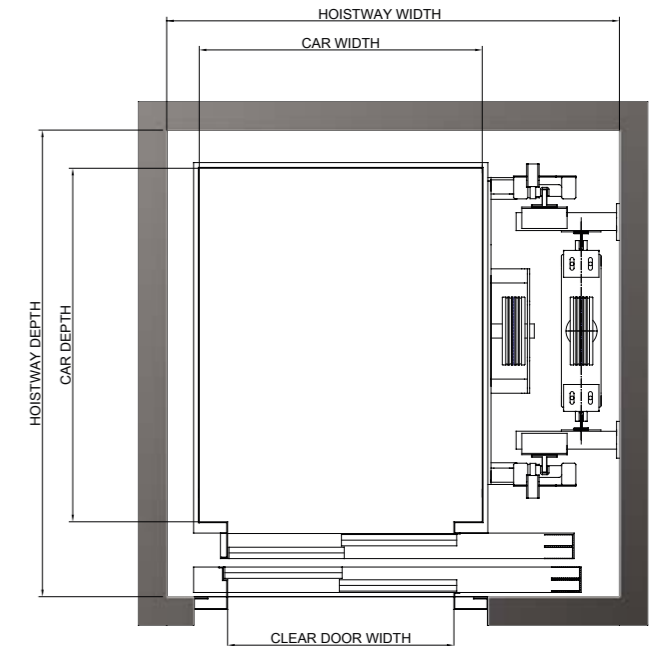
- With gearless motor's economic size provides save on the volume of the building
- With latest control techniques provides high sensitivity positioning
- This system easily mounted to all kinds of buildings
- Lifting unit with superior performance provides quiet and comfortable movement
- Consumes less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

MACHINE ROOM - LESS ( MRL - L )												
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	1200	3400			
					180°	1500	1600			1450		
					1	1600	1650			1250		
6	450	1000	1250	900	1	1700	1800			1200	3400	
					180°	1600	1800					1400
					1	1700	1800					1250
8	630	1100	1400	900	1	1900	1900			1200	3400	
					180°	1900	2050					1450
					1	2000	1800					1250
10	800	1250	1500	1000	1	2000	2000			1200	3400	
					180°	2000	2150					1450
					1	2000	2150					1250

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



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



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



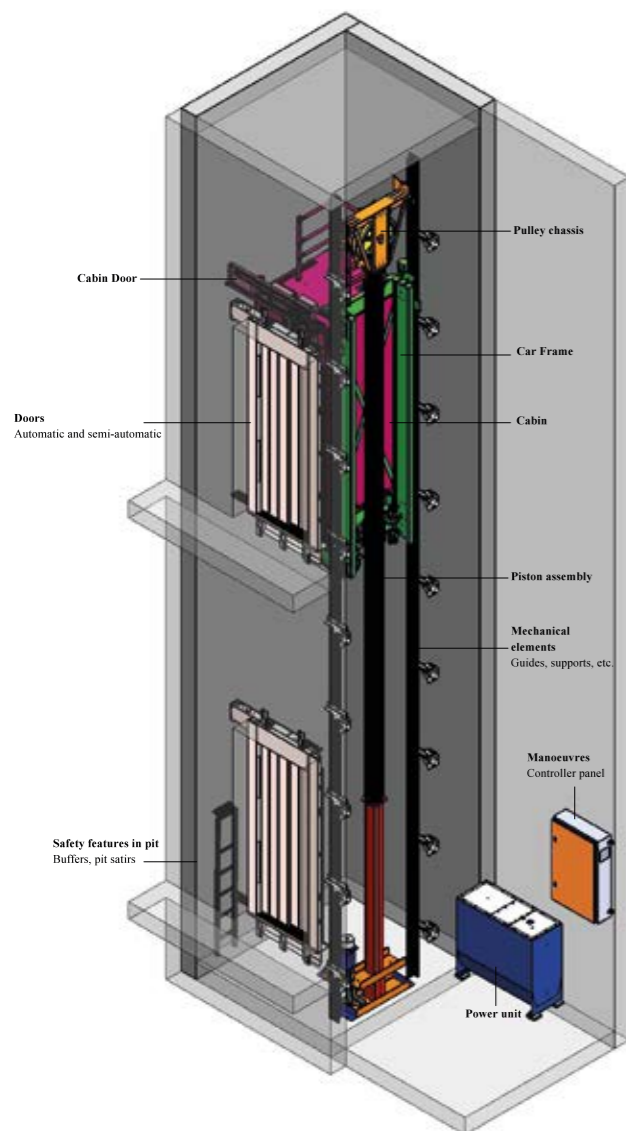
GENERAL CHARACTERISTICS						
Rated Load (kg)	320	450	630	800	1000	Up to 5000
Passenger (max)	4	6	8	11	13	Up to 66 Passengers
Rated Speed ( m/s )	Up to 1					
Maximum Travel ( m )	Up to 15					
Maximum Stops Number	6					
Car Entrances	Single		Double Entrance (180°-90° )		Triple Entrance	
Drive System	Hydraulic, mechanical valves			Hydraulic, low energy consumption electronic valves		
Control	Low energy consumption ARKEL & Mikrolift e.t.c control, with CAN BUS commication valves					
Door Type	Automatic Side Opening		Automatic Central Opening		Semi Automatic	
Door Widht ( 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

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

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

### Hydraulic Lift



### Technical Specifications Hydraulic Elevator

#### Traction equipment

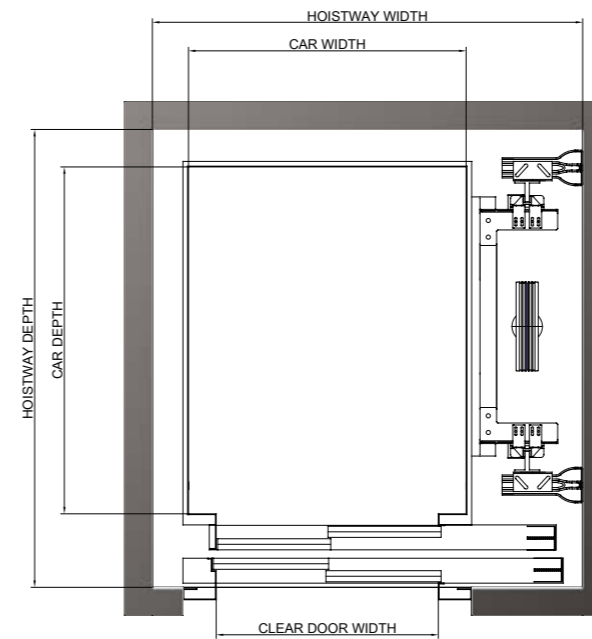
- Pump unit with asynchrone motor

#### Control

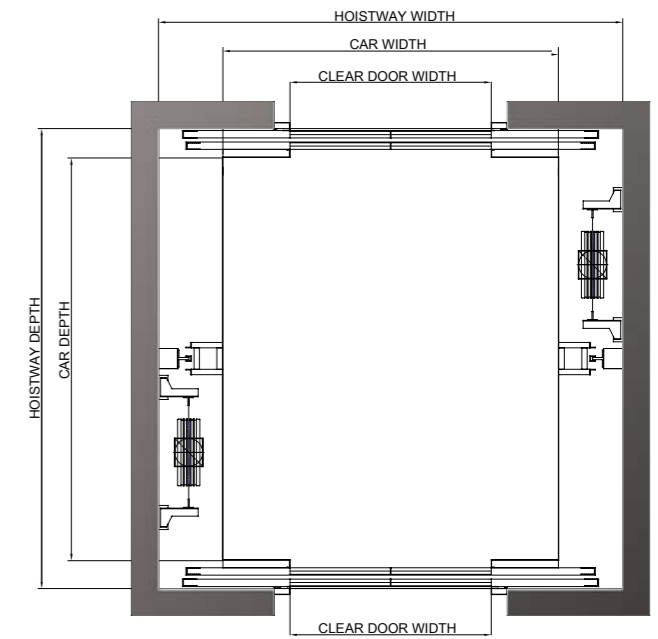
- Closed and Open loop, variable frequency regenerative drive

#### The Advantages of the Hydraulic Elevator Systems

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



Hydraulic lift drawing  
Automatic side opening doors



Hydraulic lift drawing double entrance 180  
Automatic central opening doors

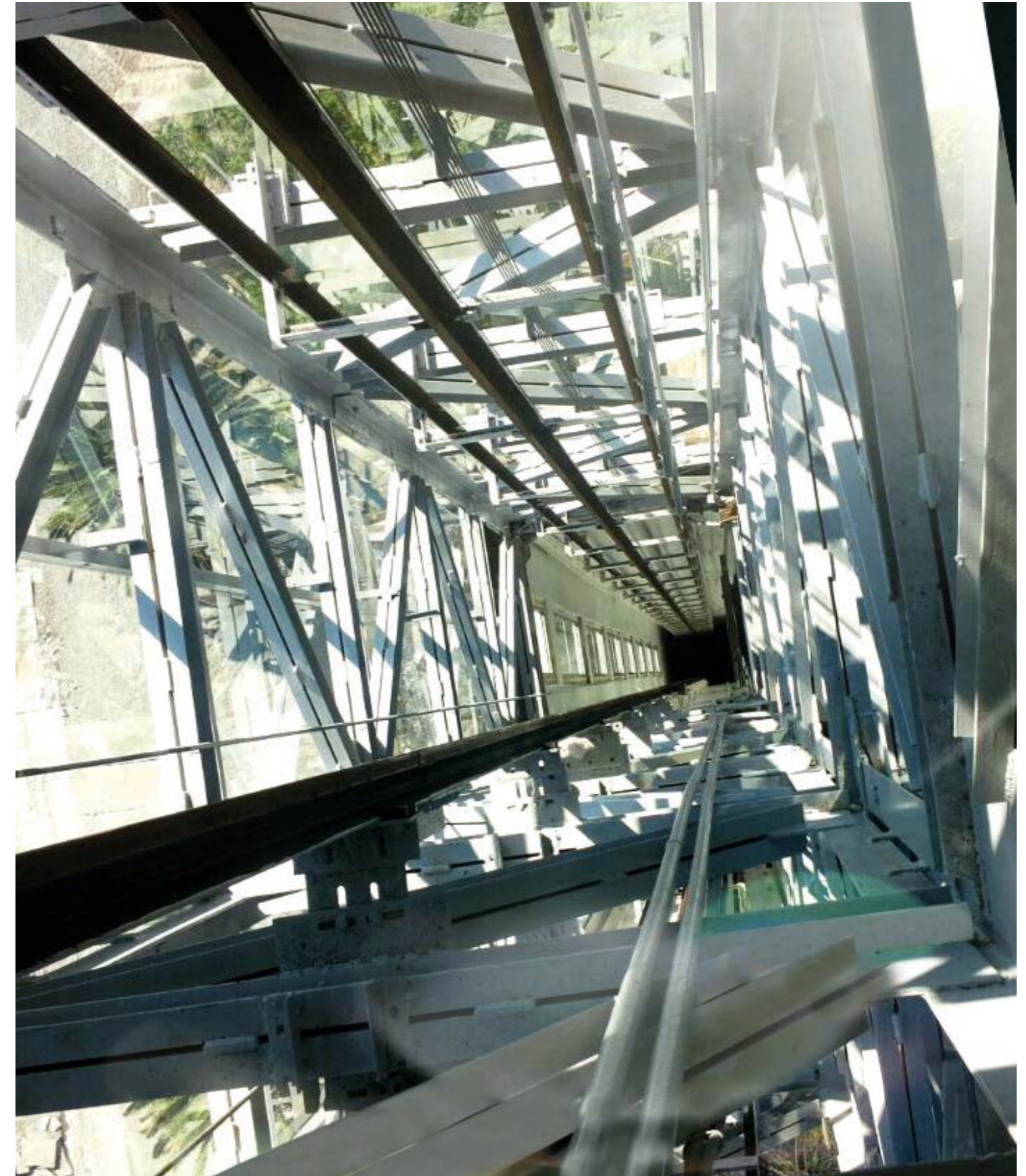
# Bill of Materials

## 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	✓	
Elektronik Over Load	Seperator	Cabin	Weights	CW Frame	Cabin Frame	CABIN & FRAMES GROUP	✓
			Landing Operation Pane (LOP)	Cabin Operation Pane (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	✓	
Elektronik Over Load	Seperator	Cabin	Weights	CW Frame	Cabin Frame	CABIN & FRAMES GROUP	✓
			Landing Operation Pane (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



Panoromic Lift





## CABINS

## CABINS



**HAS 220**

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



**HAS 300**

ESB painted sheet metal panels  
 Handle a single row  
 Half-length mirror  
 PVC floor  
 Panels a special form  
 Laser cut roof  
 EN 81-20/50



**HAS 110**

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



**HAS 150**

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



**HAS 420 C**

Painted wood panels  
 Super mirror stainless steel accessories  
 Handle a single row  
 Half-length mirror  
 Natural granite floor  
 Laser cut ceiling



**HAS 450**

Satin stainless steel panels  
 Mirror stainless steel accessories  
 Handle a single row  
 Decorative PVC floor  
 Laser cut ceiling with spotlights  
 EN 81-20/50



**HAS 470**

Satin stainless steel and PVC panels  
 Handle a single row  
 Natural granite floor  
 Laser cut ceiling



**HAS 310**

Satin stainless steel and PVC panels  
 Handle a single row  
 Half-length mirror  
 Decorative PVC floor  
 Laser cut ceiling

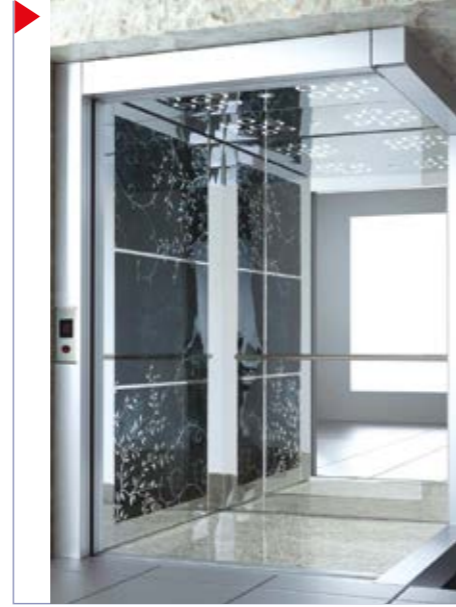


## CABINS



**HAS 400**

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



**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 430**

*Scotch brite stainless steel panels  
Satin stainless steel accessories  
Handle a single row  
Full-length mirror  
PVC floor  
Laser cut ceiling with spotlights*



**HAS 140 S**

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



**HAS LAS VEGAS**

*Formlu paneller  
Boy Ayna  
Granit Zemin  
Lazer kesim Asma Tavan  
Gizli aydınlatma (Tavan ve Tabanda )  
Küpeşte  
EN81-20/50 uygun  
1100mmx1400mm  
630kg*





## HAS GALATA TOWER

*Özel Tasarım Cam*  
*4+4 Lamine*  
*Granit Zemin*  
*Lazer Kesim Paneller*  
*Panel Gizli Aydınlatma*  
*Küpeşte*  
*EN81-20/50*



## HAS HARMONY

*Formlu paneller*  
*Boy Ayna*  
*Granit Zemin*  
*Lazer kesim Asma Tavan*  
*Gizli aydınlatma ( Tavan ve Tabanda )*  
*Küpeşte*  
*EN81-20/50 uygun*  
*1100mmx1400mm*  
*630kg*





**HAS MOONLIGHT**

*Özel Tasarım Cam*  
*4+4 Lamine*  
*Granit Zemin*  
*Lazer Kesim Paneller*  
*Panel Gizli Aydınlatma*  
*Küpeşte*  
*EN81-20/50*



**HAS CASHMERE**

*4+4 Lamine Renkli Cam*  
*Granit Zemin*  
*Boy Ayna*  
*Lazer Kesim Tavan*  
*Özel tasarım küpeşte*  
*EN81-20/50 uygun*  
*1100mmx1400mm*  
*630kg*



# DOORS



*HAS STANDARD RAL 7032  
Semi Auto Landing Door*



*HAS 10 Copper Scrap  
Semi Auto Ferforge Landing Door*

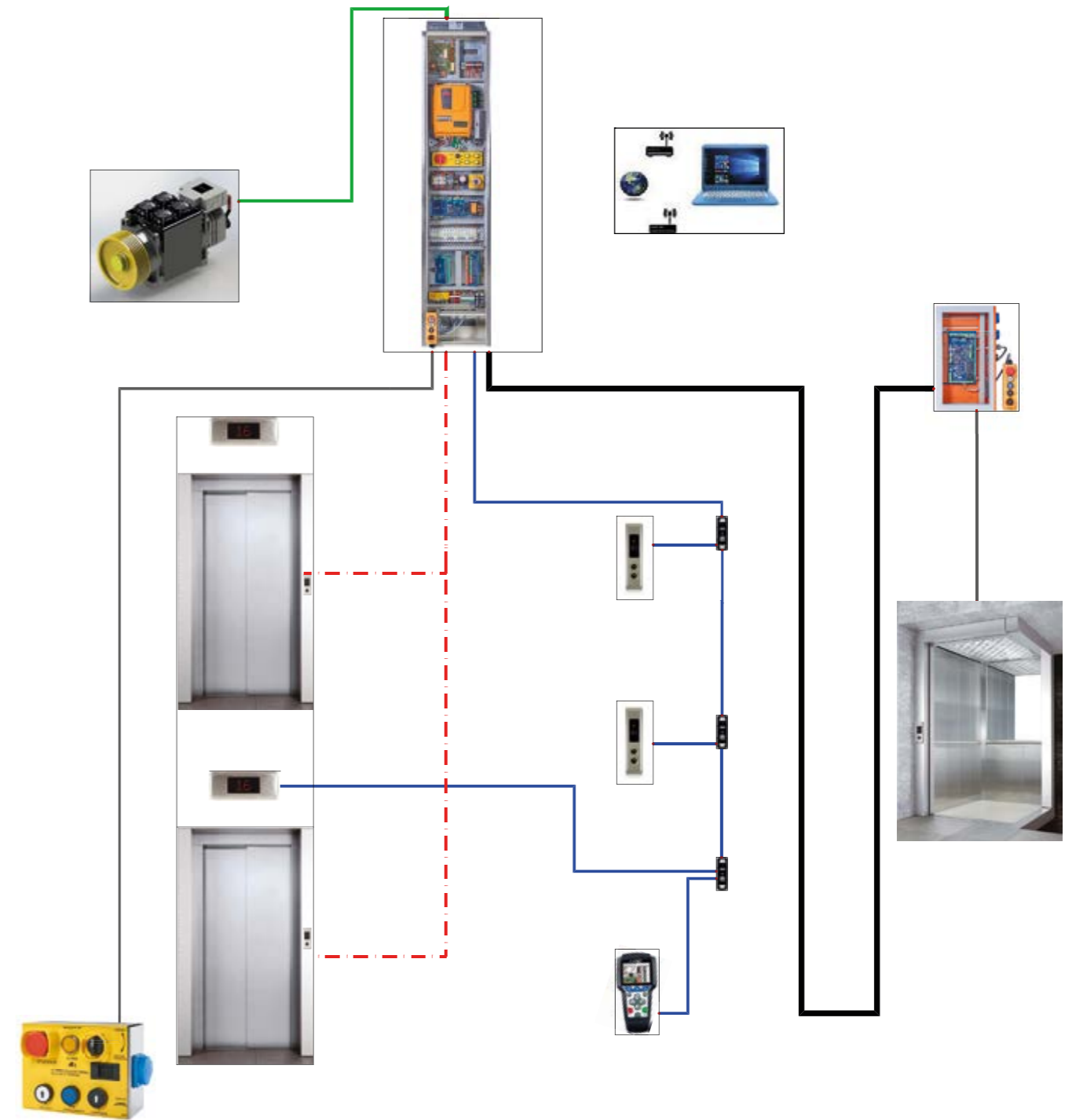


*HAS 20 Stainless Steel Hairline  
Automatic Landing Door*

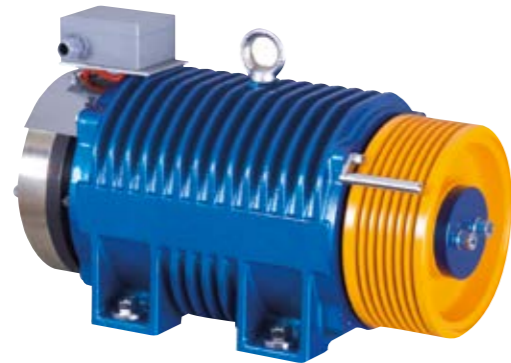


*HAS 21 Stainless Steel Hairline  
Automatic Glass Landing Door*

# PRE-WIRED SYSTEM







# CONTROLLER SYSTEMS

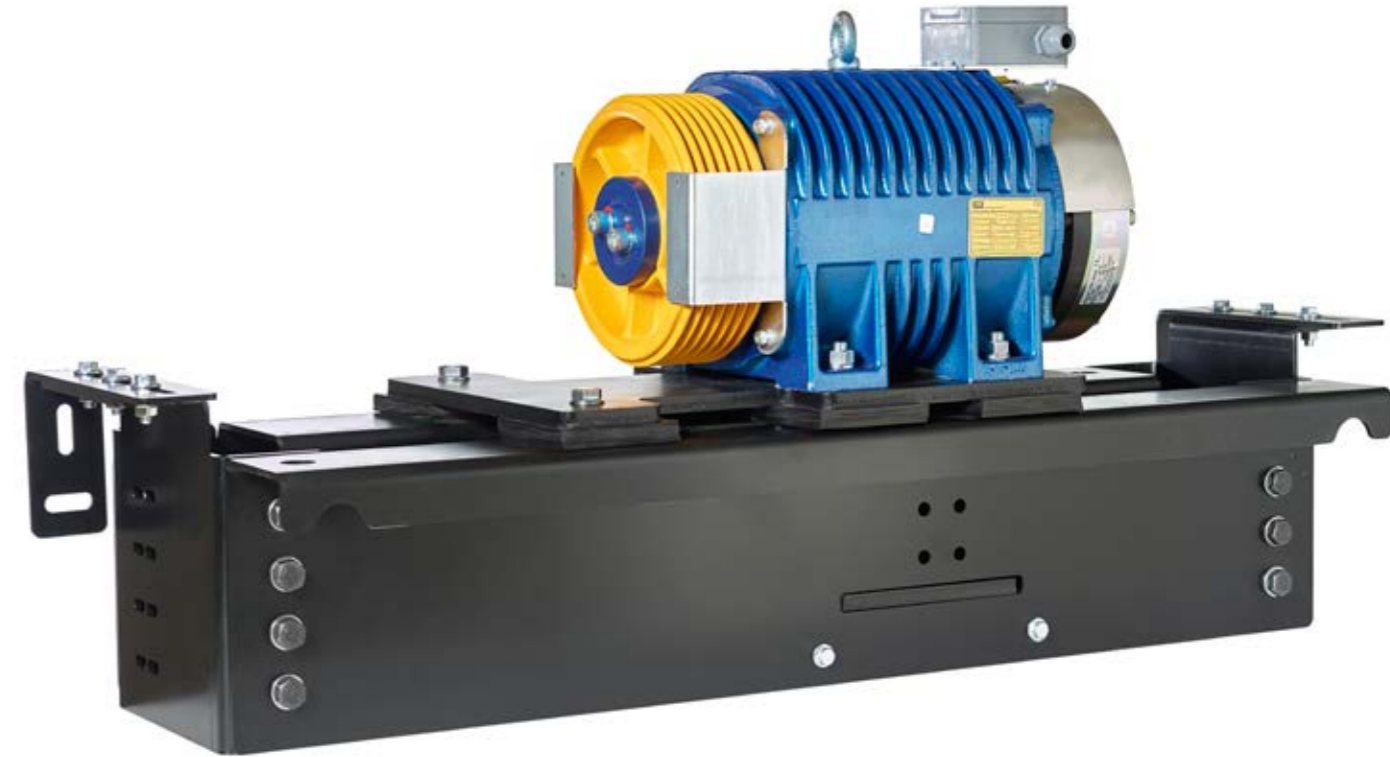


Cont roller For MRL (Gearless) System s  
Machine R oom



Cont roller For MRL (Gearless) System s  
Machine R oom

Ra I 7032 / Stainless Steel



### 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



# BUTTONS

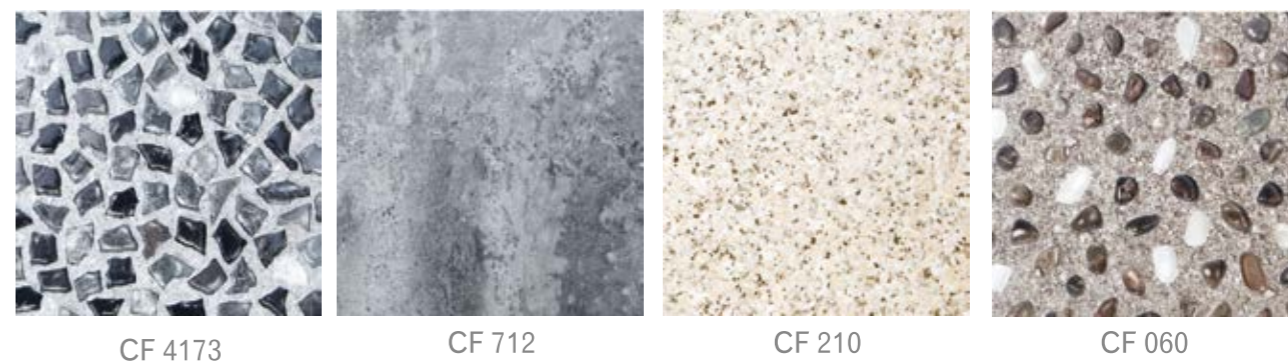
# FLOORS



## Granite Floors



## PVC Floors





## DECORATIVE STAINLESS

# HAS Elevator R&D Centre

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)



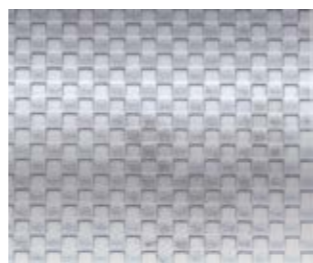
HS mirror (cx37)



HS mirror (cx03)



HS mirror (cx58)

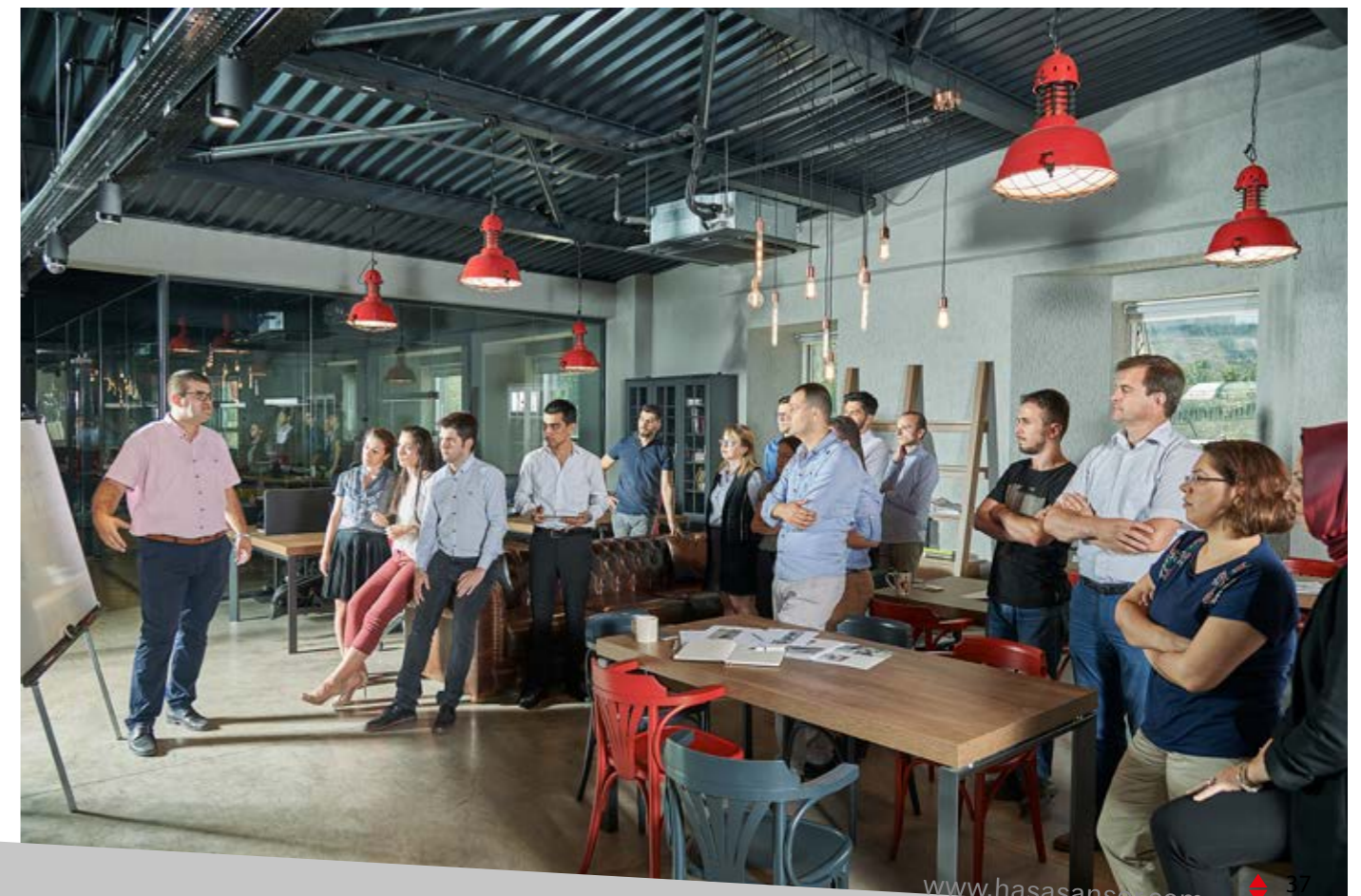


HS mirror (cx99)

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.







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



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



Ankara Cad. 13. km No: 77 16450 Kestel BURSA / TÜRKİYE  
Tel: +90 224 373 10 00 Faks: +90 224 373 10 05  
info@hasasansor.com



[f / hasasansorbursa](#) [t / hasasansor](#) [i / hasasansor](#)