



www.hasasensor.com

COMPLETE ELEVATOR SYSTEMS



Complete Elevator Systems



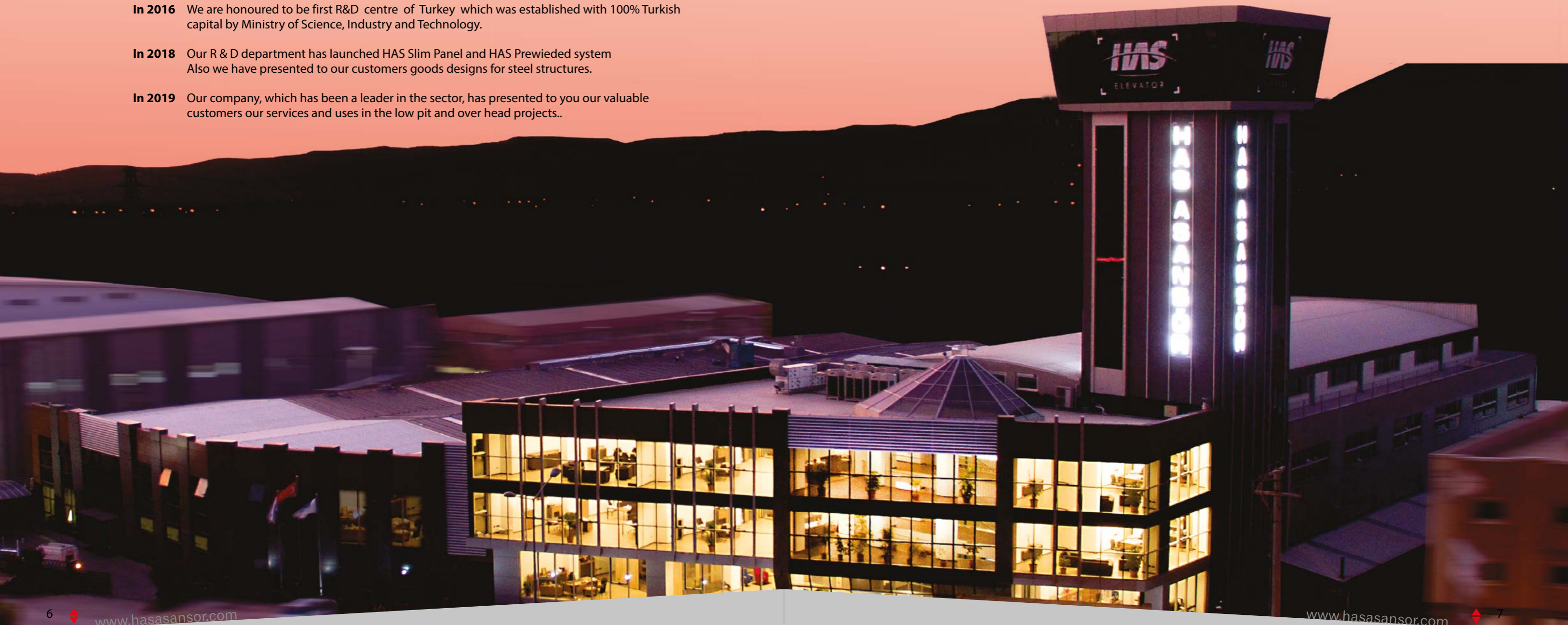
All you need is in the package...

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..

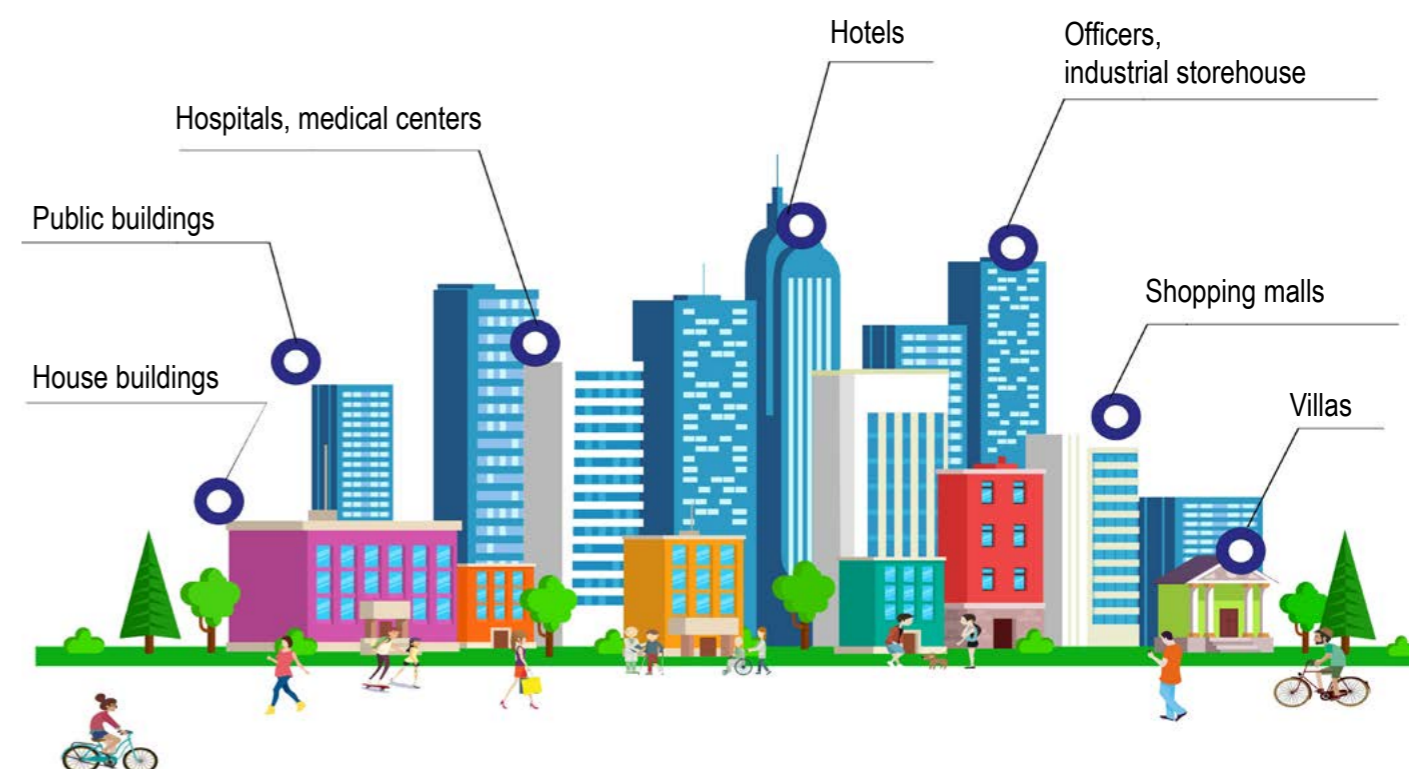
Since our foundation, we have been recognized as pioneer company for 37 years in elevator industry, we keep continue to serve you with our expert staff and to produce complete elevators and elevator components for domestic and international market within global standards.



Our Skills

- ▶ **Since 1980**
- ▶ **17.500 m²** 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.

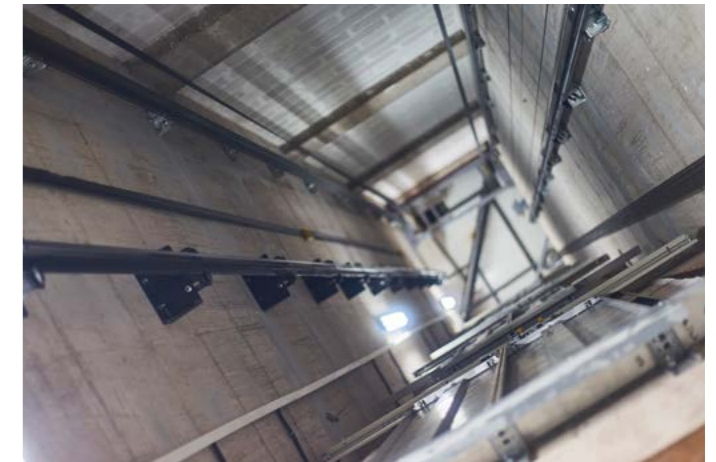
HAS Elevator is always ready to provide you technical support with its expert staff whenever you need.

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

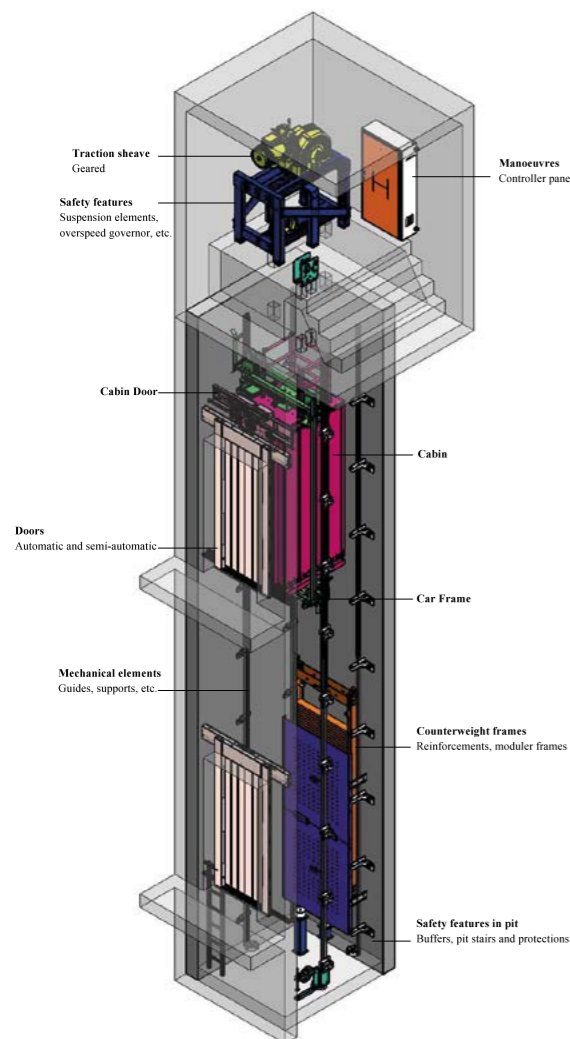


GENERAL CHARACTERISTICS

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 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

MR LIFTS

WITH MACHINE ROOM 1/1

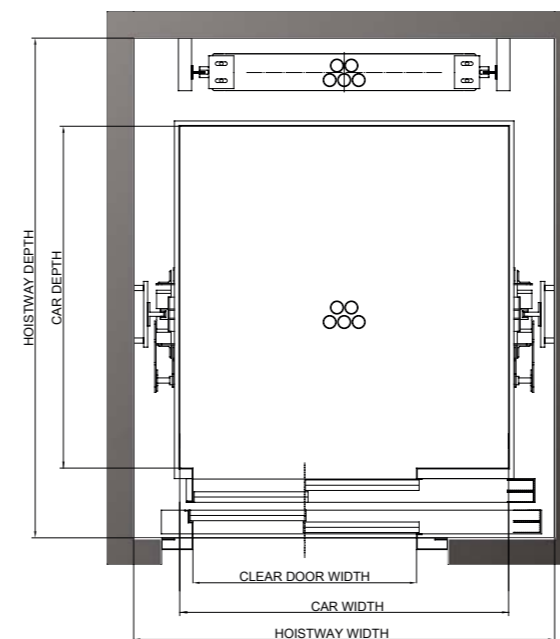
CAPACITY / LOAD		CAR				SHAFT			
PEOPLE	LOAD (kg)	WIDHT (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDHT (mm) SW	DEPTH (mm) SD	PIT (mm)	HEADROOM (mm)
4	320	1050	900	700	1	1400	1500	1350	3800
6	450	1000	1250	700	1	1350	1850	1100	3400
		1100	1100	800		1450	1700		3800
8	630	1250	1300	900	1	1600	1900	1100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

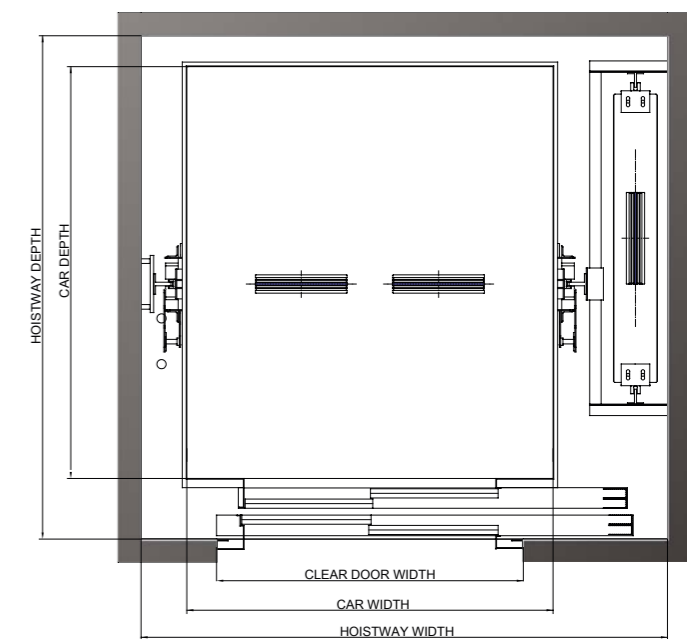
WITH MACHINE ROOM 2/1

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	2400		
26	2000	1500	2700	1300	1	2300	3100		
		1700	2400	1400		2500	2800		


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



1:1 Gear drawing
Automatic side opening doors

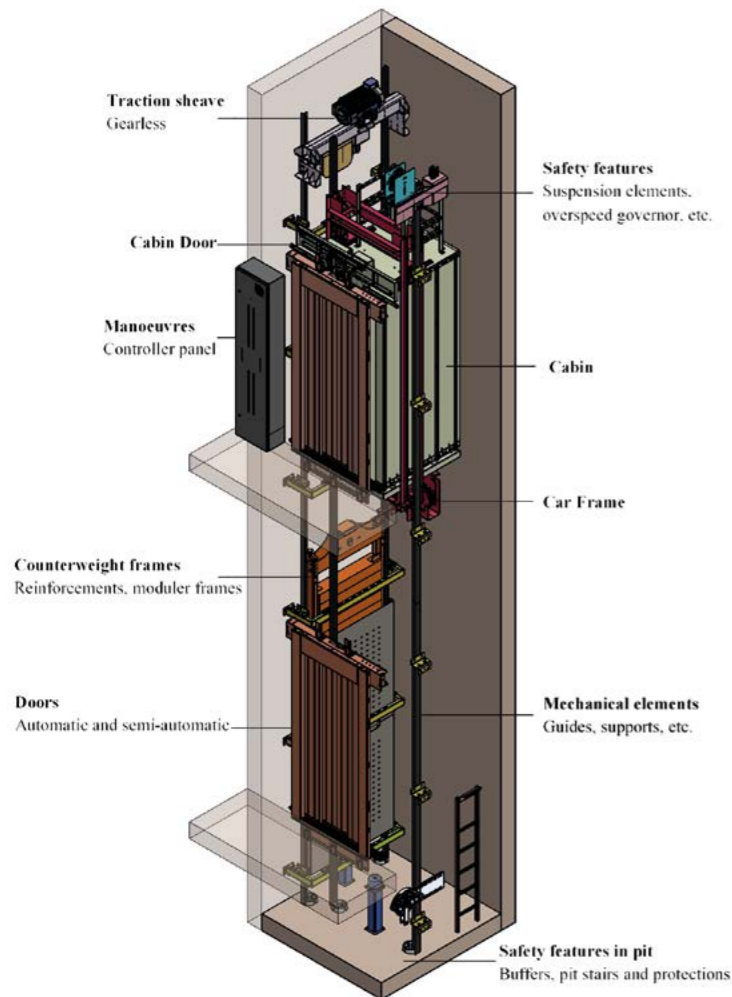


2:1 Gear drawing
Automatic side opening doors

MACHINE ROOM - LESS (MRL)										
CAPACITY / LOAD		CAR				SHAFT				
PEOPLE 	LOAD (kg)	WIDTH (mm) CW	DEPTH (mm) CD	DOOR (mm)	N° ENTRANCE	WIDTH (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			
		1400	1400	1100	1	2000	1800			
				900	180°	2000	1950			
13	1000	1100	2100	900	1	1700	2500			
					180°	1700	2650			
		1400	1600	900	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

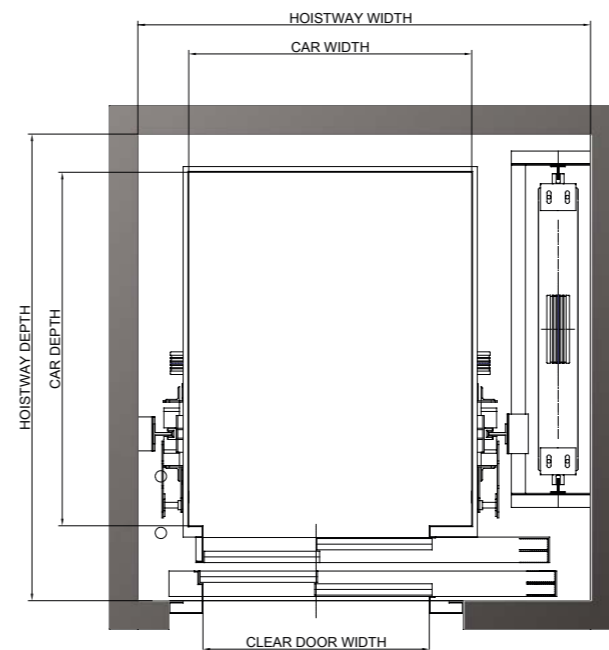
- Gearless machine with permanent magnet motor
- 2:1 configuration with lower suspension or in cantiliver Control
- Closed loop, variable frequency regenerative drive

The Advantages of the Machine Roomless Elevator Systems

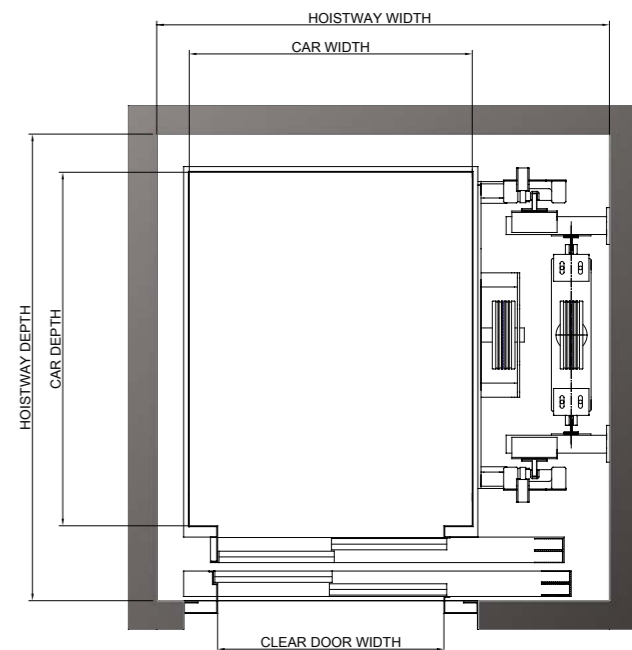
- With gearless motor's economic size provides save on the volume of the building
- With latest control techniques provides high sensitivity positioning
- This system easily mounted to all kinds of buildings
- Lifting unit with superior performance provides quiet and comfortable movement
- Consumes less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

MACHINE ROOM - LESS (MRL - L)										
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	1050	800	1	1500	1450	1200	3400
			800	1200	700	180°	1400	1750		
			900	1050		90°	1650	1450		
6	450		1000	1250	900	1	1600	1650		
						180°	1650	1800		
						90°	1750	1700		
8	630		1100	1400	900	1	1700	1800		
						180°	1750	1950		
						90°	1850	1800		
10	800		1250	1500	1000	1	1850	1900		
						180°	1850	2050		
						90°	2000	1900		


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

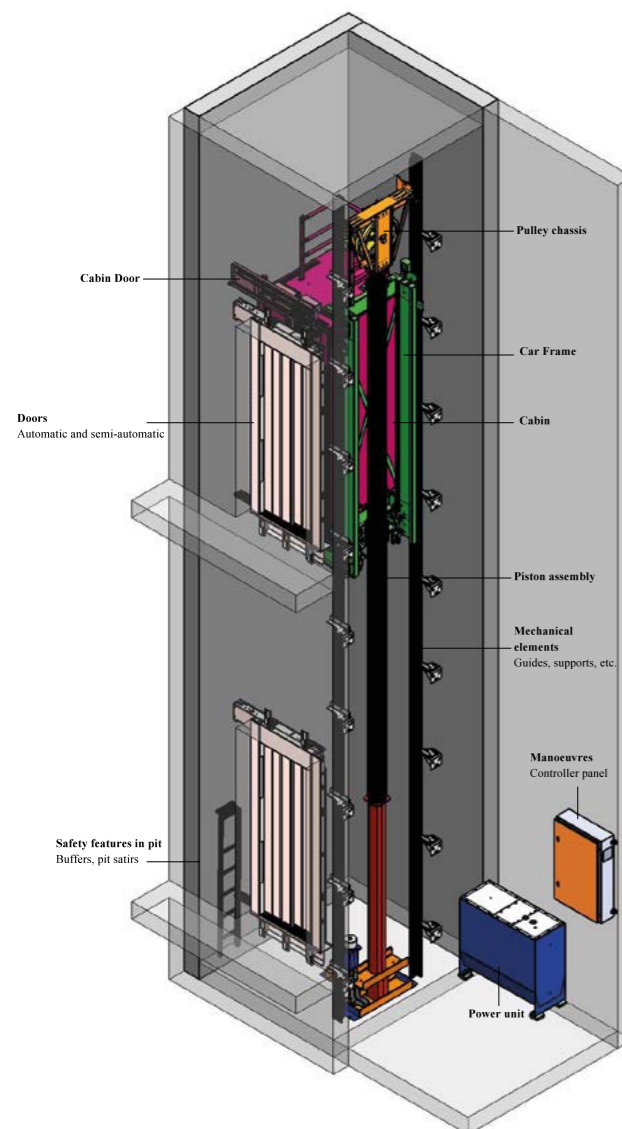
GENERAL CHARACTERISTICS						
Rated Load (kg)	320	450	630	800	1000	Up to 5000
Passenger (max) 	4	6	8	11	13	Up to 66 Passengers
Rated Speed (m/s)	Up to 1					
Maximum Travel (m)	Up to 15					
Maximum Stops Number	6					
Car Entrances	Single				Double Entrance (180°-90°)	Triple Entrance
Drive System	Hydraulic, 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)	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		90°		1600		
6	450	1000	1250	800	1	1550	1650		
					180°		1800		
					90°		1700		
8	630	1100	1400	900	1	1650	1800		
					180°		1950		
					90°		1800		
10	800	1300	1500	1000	1	1850	1900		
					180°		2050		
					90°		2000		
13	1000 -1	1100	2100	900	1	1650	2500		
					180°		2650		
13	1000 -2	1400	1600	1100	1	1950	2000		
					180°		2150		
					90°		2100		

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

Hydraulic Lift



Technical Specifications Hydraulic Elevator

Traction equipment

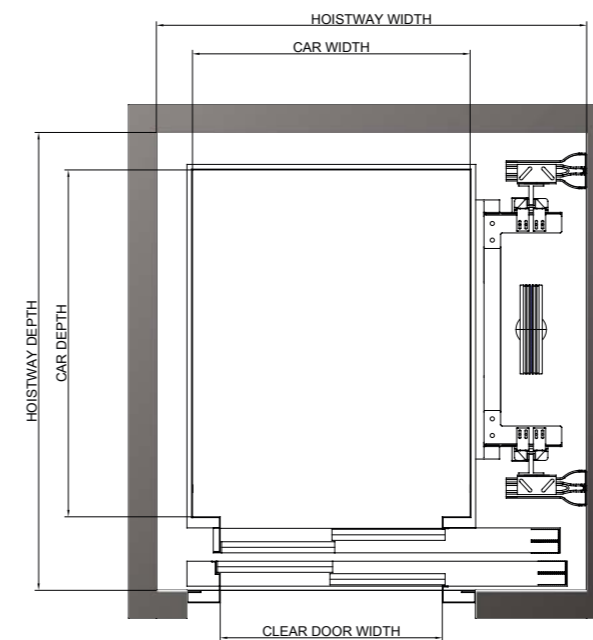
- Pump unit with asynchrone motor

Control

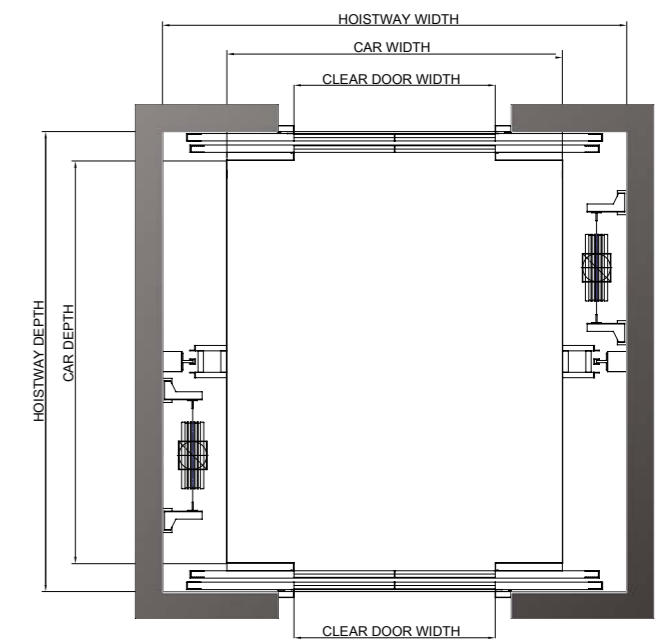
- Closed and Open loop, variable frequency regenerative drive

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

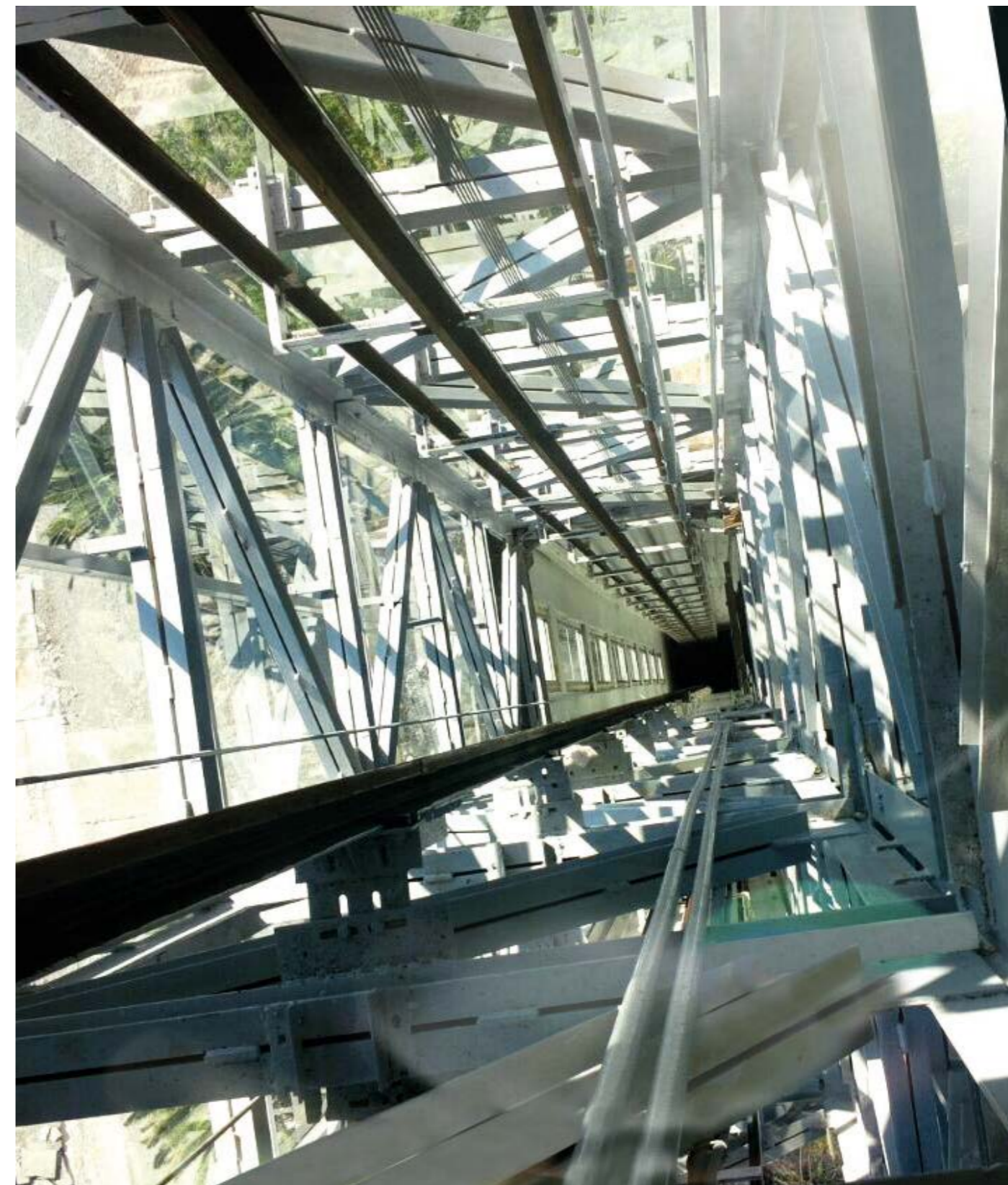
Bill of Materials

MRL Automatic Door

MRL SYSTEM SUPPLY PRODUCT					COMPARTMENT	HAS ELEVATOR CONTROL			
Elektronik Over Load	Seperator	Cabin	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	✓
					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



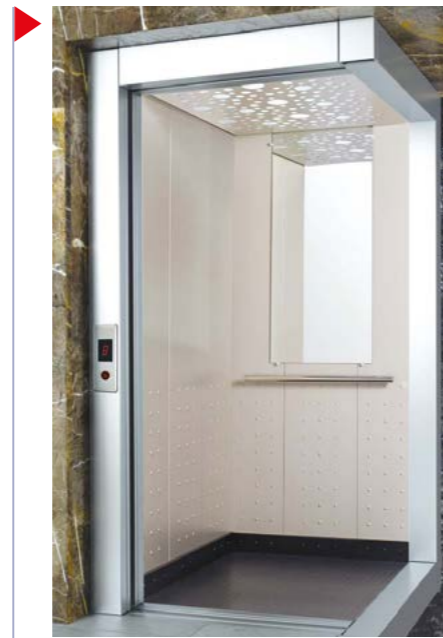
CABINS

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

*“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



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



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



*HAS STANDARD RAL 7032
Semi Auto Landing Door*



*HAS 10 Copper Scrap
Semi Auto Ferforge Landing Door*

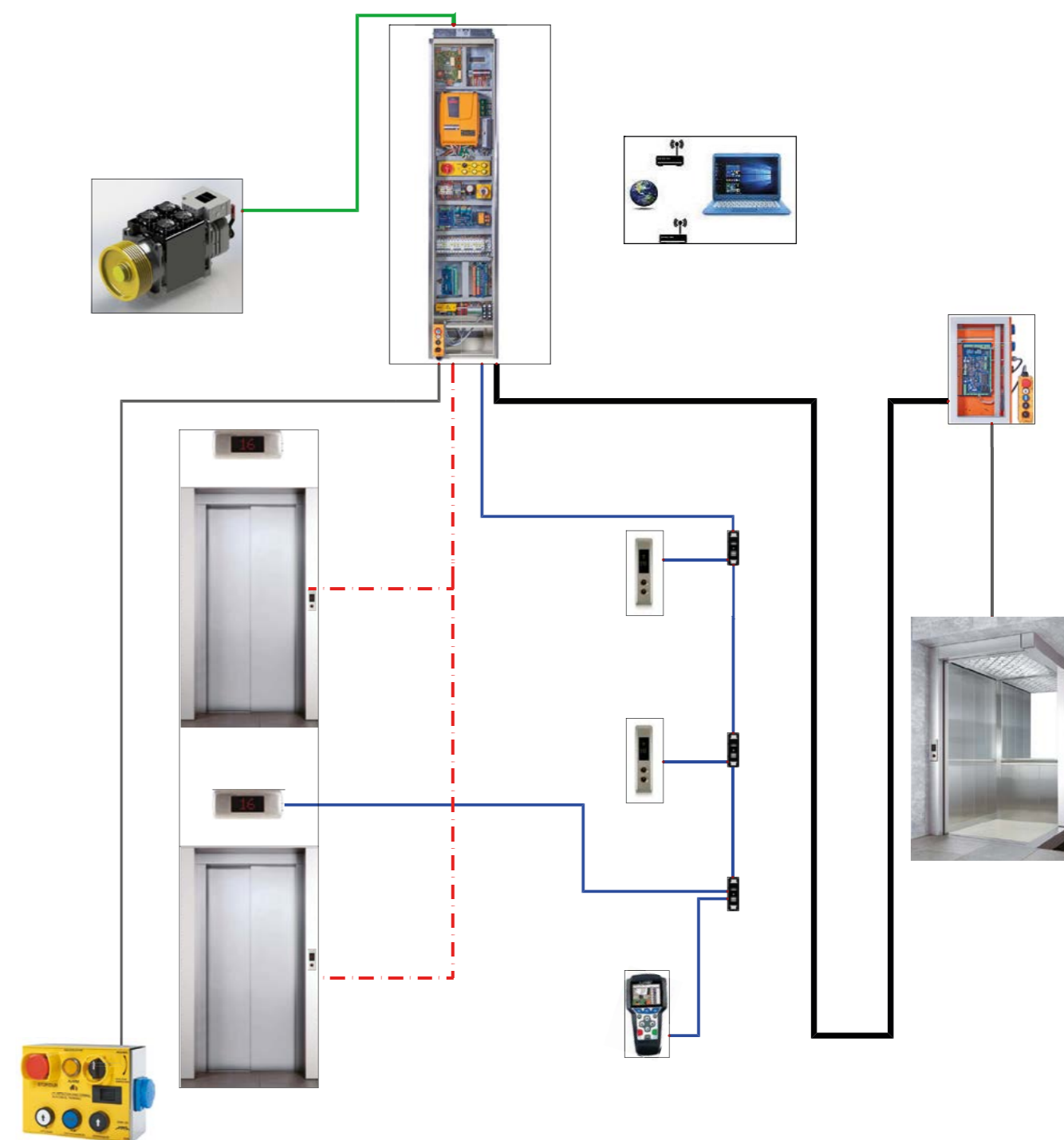


*HAS 20 Stainless Steel Hairline
Automatic Landing Door*

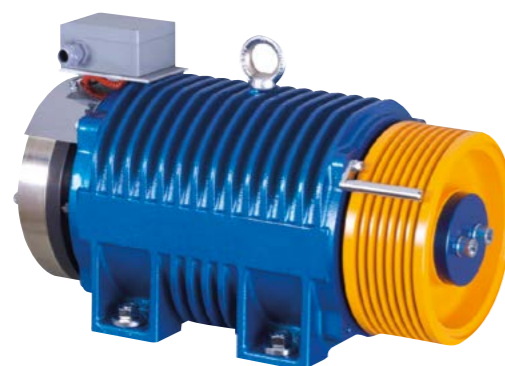


*HAS 21 Stainless Steel Hairline
Automatic Glass Landing Door*

PRE-WIRED SYSTEM



MACHINE MOTORS



CONTROLLER SYSTEMS



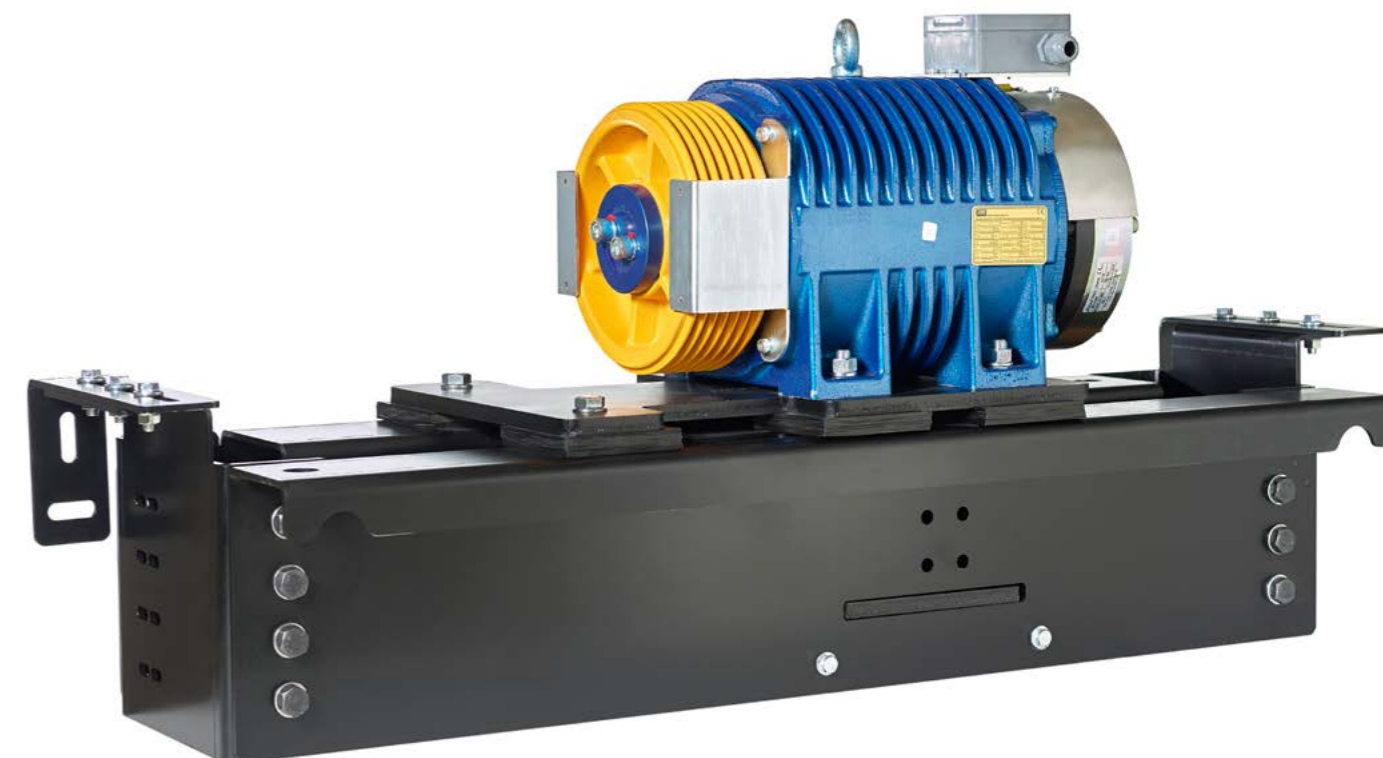
Controller For MRL (Gearless) System
Machine Room



Controller For MRL (Gearless) System
Machine Room

Ra I 7032 / Stainless Steel

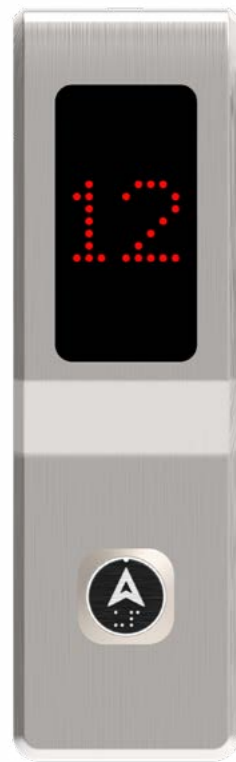
New Generation Machine Plate P12



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

BUTTONS



SL205.ARDOT



SP205.DM430



7205.ROT-2Y



PANELL B



PANELL SX



PANELL S



SL220.ARDOT



SP220.DM430



7220ROT-2Y



FHP 2000 DM230



FHP 2000 MLTFT B



FHP 2000 MLTFT W



FHP 2000 LCD1055



5115

5215

4115

3515

5015



3035

3735

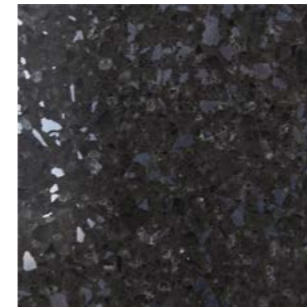
3715

3634

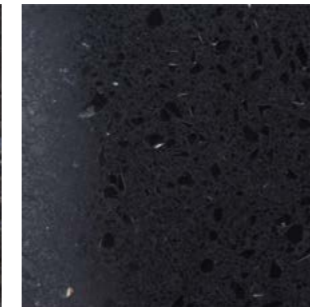
5234

FLOORS

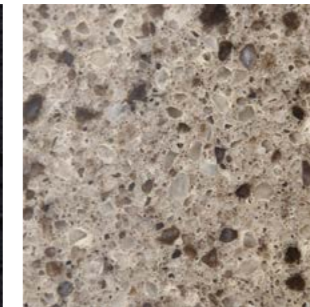
Granite Floors



580 Kromit



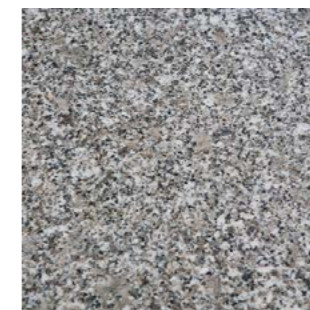
759 Savana



328 Nevers



332 Lapaz



HS Z004 Hisar Gri



HS Z003



900 Lapland

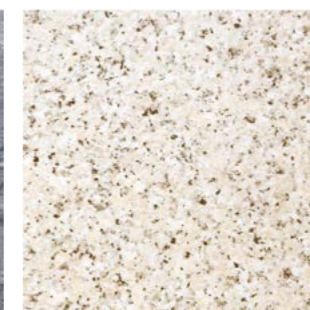
PVC Floors



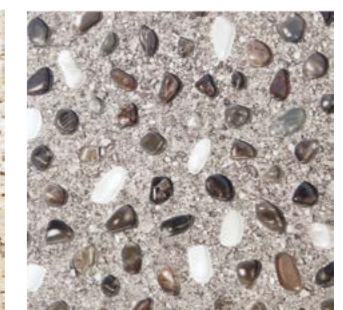
CF 4173



CF 712



CF 210



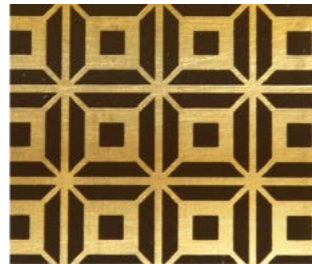
CF 060

DECORATIVE STAINLESS

Decorative Stainless



HS mirror ti-gold



HS mirror ti-gold (cx41)



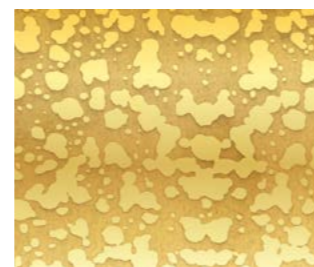
HS mirror ti-gold (cx82)



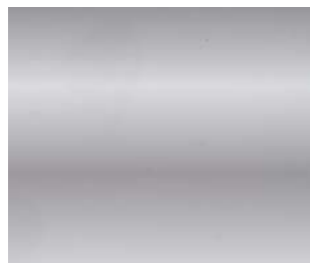
HS mirror ti-gold (cx26)



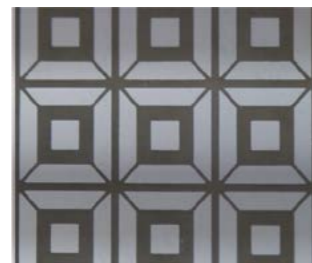
HS mirror ti-gold (cx37)



HS mirror ti-gold (cx08)



HS mirror



HS mirror (cx41)



HS mirror (cx82)



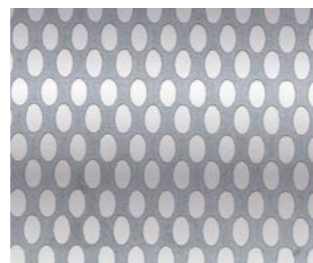
HS mirror (cx26)



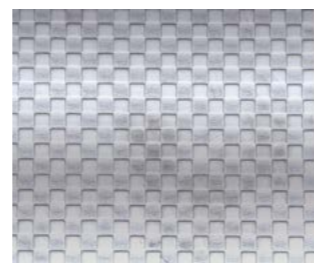
HS mirror (cx37)



HS mirror (cx03)



HS mirror (cx58)



HS mirror (cx99)

HAS 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.





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

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



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