GeN2® Comfort

OTIS

Otis knows it's not about any project – It's your project. With our Gen2® system, we re-examined every elevator aspect - from design and installation to operation and maintenance. The result is a system which takes elevators to a new standard, providing freedom of project in a way only Otis is able to offer.

Smooth performance

Polyurethane coated steel belts eliminate the metal-to-metal contact from the sheaves with the steel ropes used in traditional systems. Resulting in a trip with noticeably lower vibration and noise levels.

Project efficiency and flexibility

With Gen2® machine rooms are not required. The control is so compact that it can be installed next to the upper deck door. It is no longer required to design a specific additional space to allocate elevator components.

Smart Engineering

Gen2•Comfort is composed of components especially designed to deliver outstanding performance and a worldwide energy efficiency standard.

50%

Smaller

Compact, although with high performance

The use of innovative flat-belts enabled us to redesign key components into a compact, integrated machine. The gearless machine with permanent magnet is 50% smaller and more efficient than conventional. In addition, they do not require additional lubrication, eliminating the requirement for storage, cleaning and disposal of hazardous waste.

20%

Lighter than cables

Strength

Lighter flat-belts eradicate the requirement for lubrication. Our Pulse system guarantees belt integrity and saves performance downtime.

Incomparable benefits

Up to
75%
energy saving

Energy regeneration

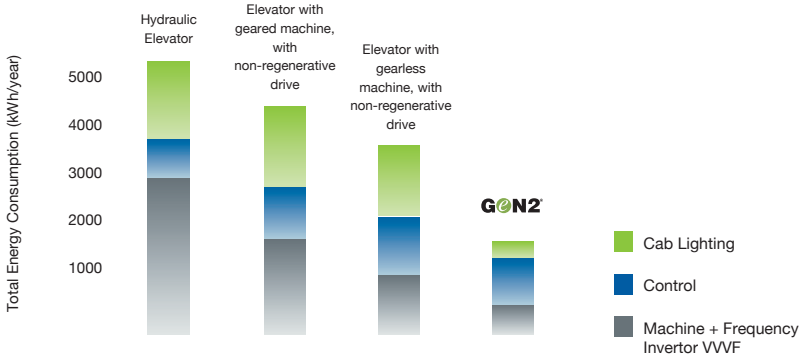
Redirects excess energy through the power grid to the building using regenerative technology. ReGen• Drive provides up to 75% energy saving, producing clean energy, minimizing the impact on the building's electrical system.

Up to
80%
energy saving

Lighting

The advanced standby LED lighting provided as standard in the Gen2•Comfort system results in the reduction of up to 80% in power consumption and lasts up to 10 times longer than conventional lighting systems.

Note: The values given here are all from elevators tested at our factories. Performance for a specific installation may vary depending on elevator usage and product-specific options.

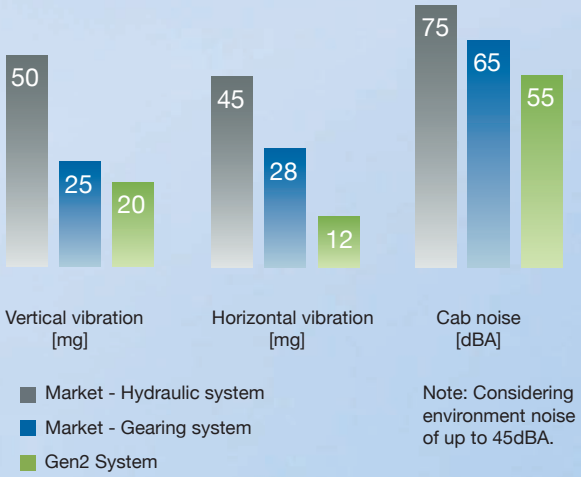


Based on a 1,000 kg (2204 pounds) Elevator at 1 m/s, 8 stops and 200,000 rides per year.

Market comparison

Careful design and component selection has enabled Otis to create an incredibly quiet and smooth elevator.

This means a more comfortable ride for the passenger, as well as a quiet operation, essential for the apartments closest to the elevators.



Note: Considering environment noise of up to 45dBA.

A comfortable ride

By thoroughly analyzing all possible sources of noise and vibration, Otis engineers designed the Gen2® elevator specifically thinking about the comfort of all passengers.

Gen2® ride's quality is so smooth and silent that normally the passengers are not able to realize the elevator is moving, leaving or stopping at a floor.

Efficient. Minimal impact at the construction work

Quick and inexpensive installation

With all the major components located inside the elevator box, the streamlined installation process - international standard - has very little impact on building construction. Otis' highly trained professionals use standard procedures to ensure that each task, during installation, is performed safely and efficiently. The result is a comprehensive solution that provides speed and ease of installation.

Gen2® does not require an engine room, which reduces the material costs, time and labor during construction.

EFFICIENT

Service-oriented company

Otis is committed to ensure the best equipment performance over its entire lifespan. New technologies and exclusive services enable Otis to accurately identify or predict possible problems in its maintenance equipment, and provide its Customers with agility and quality. And, when our technicians arrive at the local, they are already prepared to quickly and efficiently perform the repairs.

REM

REM is an exclusive remote monitoring system. With it, the equipment is monitored 24 hours a day and all data collected is sent to the Customer Service Center. This enables problem detection in an exceptionally proactive and accurate manner, providing faster responses and greater availability of equipment and security to the passengers. Upon detecting a problem, the REM immediately sends this information to the CAC automatically opening a call without human interference. If a passenger is stuck in the cab, pressing the alarm button will cause the CAC to receive information that people are trapped in the elevator and, via REM, the attendant is able to talk to these people, reassuring and informing them the technician is already on the way.

eService
Your elevator's portal

Committed to strengthening the global character and serving its Customers with agility and quality, Otis seeks to establish - through the Internet - a faster and closer contact. That's why Otis has developed eService - an online tool available on Otis.com.

Through eService, Otis provides its Customers 24 hours a day information about the operation and technical calls of their equipment via email or reports and graphics obtained directly from the internet.

Innovation with sustainability

For UTC, leadership with sustainability is something that happens naturally. Our founders were inventors. Our brands were industry pioneers. Our products have changed the world. And along the way, the focus on sustainability and preservation of natural resources has been our guiding principle. Today, we keep making the world a better place to live for the upcoming generations. For us, it is natural.

improve efficiency™

Clean manufacturing

We select all components for the best performance and the lowest possible environmental impact. For example, the Gen2® elevators use paint with truly low carbon levels. Besides that, part of our industrial waste is recycled

GeN2® Comfort

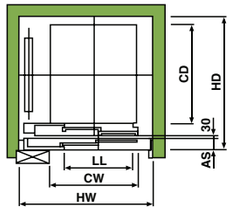
At Otis, reliability is the exceptional design warranty.

Gen2 represents the pinnacle of Otis' commitment in the quest for elevator technology perfection. With its flexible polyurethane coated steel flat-belts and energy-efficient components that do not require lubrication, Gen2 sets a new standard for elevator design and performance. With industry-proven safety records and reliability, Gen2 is the elevator you can count on.

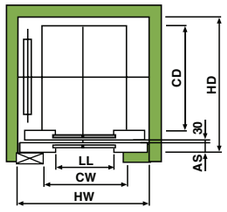
4 - Box blueprint - SLIM DOOR / DO2000

Right hand as shown - Left hand backwards

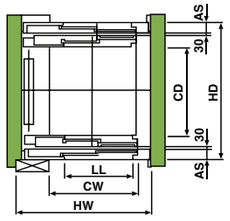
Side opening doors
One entrance



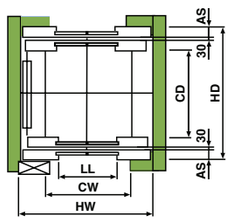
Central opening doors
One entrance



Side opening doors
Two entrances: front and reverse



Central opening doors
Two entrances: front and reverse



		DO 2000 / SLIM Door									
		Pass	Leng. (LL)	Cab (internal dimension)			Box HW			Box HD (4)		
				CW	CD	Area	MP (5)	Restart. (2)	max	MP (5)	max***	max****
Side	Opening	15D(6)	1100	1200	2200	2.64	2000	2050	2250	2555	2800	3275

Dimensions in mm and areas in m2

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 245 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check product table. Last height 3.3).

Notes:

1. Number of Entrances = 1 means that all entrances must be on the same side and Number of Entrances = 2 means there are front and back entrances (see number of entrances limitation in 2.1).
2. Smaller than recommended dimensions should be minimal (see product table 3.1).
3. Central opening doors are not centered with the cab.
4. The reported HD dimension is for floor doors installed at threshold progress. With floor doors (including opposite entrances) installed on the hall (without threshold progress) the HD dimension can be reduced to a value equal to those in the table below:

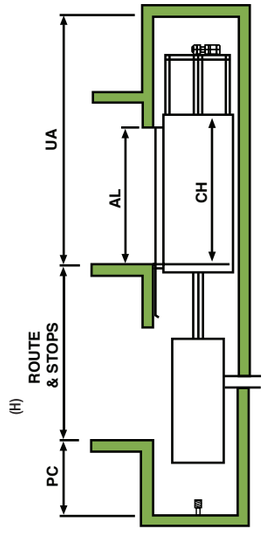
Doors (type)	ENTRANCE	HD Reduction	
		One entrance	Opposite entrances
A	Central Opening	110	220
	Side Opening	155	310
B	Central Openingl	110	220
	Side Opening	155	310
C	Side Opening	140	280

Notes:

5. MP indicates that the expressed value is considered as minimal (see product table 3.1).
6. Available only for “H” Aesthetics

1m/s Speed

1 - Box Elevation



Pass.	H (máx) (m)	Nº Stops (máx)	MH - Maximum Height (mm) [4] / CH - Cab Height 2.200	2.300	2.500	PC. minimal (mm)[2]
4 6 7 8 9 10 12 13 15	54	20	3.560 [3]	3.660 [3]	3.860 [3]	1.100 [1]

Shaft depth
When required, the concrete piers location will be indicated on the assembly plant (created by the customer).

Maximum Height
When the maximum height is greater than 4,200mm, the customer shall construct beams for fastening the hooks required for the installation process to a height of 4.20mm above the upper end stop floor level.

Gen2 Comfort: VWF technology with regenerative drive/ Without a Machine room

Free span required for floor doors installation
The dimensions of the free span for floor doors installation will be indicated in our assembly plant.

Maximum distance between stops (m)
11 m (limit established by the ABNT standard so an emergency door between floors is not required)

Minimum distance between stops (mm)	
With same-side entrances	Limited by the span required for installation of the floor doors
With opposite entrances	500 mm

Maximum distance between intermediate belts (mm)
When the distance between two consecutive floors is greater than 3,000 mm, it is mandatory to construct an intermediate belt between these floors (on customer’s behalf).

Notes:

(1) The well must be 1400 mm for the following conditions:

a) trajectory over 45 meters (147 feet) and capacity of 1000 kg (2204 pounds) ; or
b) trajectory over 45 meters (147 feet) and capacity of 650 kg (1433 pounds) ; or

(2) Where the depth of the well is greater than the recommended, provide concrete piers (provided by the customer) to support the guide and bumper supports.

(3) When HD is higher than indicated in (**** max) (see product table in 3.2) add 200 mm to the indicated MH.

(4) Maximum special height for cage, 1000mm height (see product table LMR-05).

Additional information:

- The resulting efforts from the box structure, the machine enclosure and the bottom of the shaft will be informed at the Assembly Plant.
- The MH dimension (Maximum Height) and SH (Shaft) indicated in the tables above are the minimum required for the equipment installation and to meet the break standards required by the ABNT standard (NBR 16042) and by the Otis global safety standard (WWJSSS).
- Under the shaft, it is recommended the complete absence of accessible space to people (for circulation).
- In case there is accessible space (circulation) to people under the shaft, the customer must construct - under the counterweight bumper projection - a strong pillar that extends down to the ground. If not available, the counterweight must have safety brakes (on request).
- The control cabinet is designed to be mounted superimposed on the doorframe panel or superimposed on the wall. It can not be embedded directly into the wall, or enclosed in a way that its ventilation is impaired.
- The elevator without an engine room does not apply to buildings with private hall.
- Watch out for ventilation openings requirement on the top of the elevator's race box.
- Temperatures in the machine and control enclosures should be kept within the range of 5º to 40ºC.

2 - Box blueprint - Front Door/ AT120

Opening		AT120 / Front Door										
		Pass.	Leng. (LL)	Cab (internal dimension)			Box HW			Box HD (4)		
				CW	CD	Area	MP (5)	Restart. (2)	max	MP (5)	max***	max***
Side *		4	700	840	1050	0.88	1330	1380	1800	1400	1640	2075
		6	800	1000	1250	1.25	1500	1550	1990	1600	1840	2325
		7	800	1000	1300	1.3	1500	1550	1990	1650	1890	2375
		8	800	1100	1400	1.54	1590	1640	2090	1750	1990	2475
			900				1650	1690				
		9	800	1100	1450	1.59	1590	1640	2090	1800	2040	2525
			900				1650	1690				
		10D	800	1100	1600	1.76	1680	1700	1970	1950	2190	2675
			900						2000			
		10W	800	1350	1400	1.89	1930	1970	2256	1750	1990	2475
			900									
		12	800	1400	1500	2.1	1980	2000		1850	2090	2575
			900									
		13D	800	1100	2100	2.31	1680	1700	1970	2450	2690	3175
			900						2000			
		15D	900	1200	2200	2.64	1750	1800	2270	2550	2790	3275
Central **		6	800	1000	1250	1.25	1780	1830	1990	1555	1750	2325
		7	800	1000	1300	1.3			1990	1605	1800	2375
		8	800	1100	1400	1.54			2090	1705	1900	2475
			900				1960	2010				
		9	800	1100	1450	1.59	1780	1830	2090	1755	1950	2525
			900				1960	2010				
		10D	800	1100	1600	1.76	1785	1810	2000	1905	2100	2675
			900				1970	2010	2080			
		10W	800	1350	1400	1.89	1930	1970	2256	1705	1900	2475
			900				1980	2000				
		12	800	1400	1500	2.1	1970	2000		1805	2000	2575
			900				1990	2025	2340			
		13D	800	1100	2100	2.31	1785	1810	2000	2405	2600	3175
			900				1970	2010	2080			
		13W	900	1600	1400	2.24	2170	2200	2500	1705	1900	2475
		15D	900	1200	2200	2.64	2000	2050	2270	2505	2700	3275
		15W	900	1600	1550	2.48	2170	2200	2500	1855	2050	2625

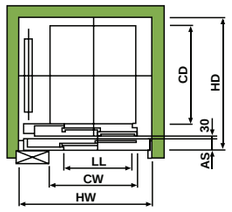
Dimensions in mm and areas in m²

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 240 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 195 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check product table. Maximum Height 3.3).

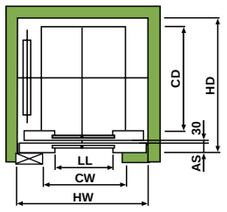
3 - Box blueprint - Front Door/ DO2000

Right hand as shown - Left hand backwards

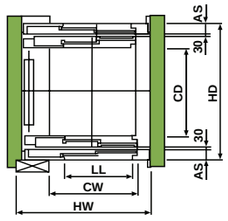
Side opening doors
One entrance



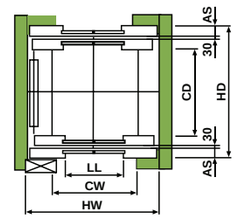
Central opening doors
One entrance



Side opening doors
Two entrances: front and reverse



Central opening doors
Two entrances: front and reverse



Entrance		DO 2000 / Front Door										
		Pass	Leng. (LL)	Cab (internal dimension)			Box HW			Box HD (4)		
				CW	CD	Area	MP (5)	Restart. (2)	max	MP (5)	max***	max****
Central *		6	800	1000	1250	1.25	1500	1550	1990	1620	1880	2325
		7	800	1000	1300	1.3	1500	1550	1990	1670	1930	2375
		8	800	1100	1400	1.54	1590	1640	2090	1770	2030	2475
			900				1650	1690				
		9	800	1100	1450	1.59	1590	1640	2090	1820	2080	2525
			900				1650	1690				
		10D	800	1100	1600	1.76	1680	1700	1970	1970	2230	2675
			900						2000			
		10W	800	1350	1400	1.89	1930	1970	2256	1770	2030	2475
			900									
		12	800	1400	1500	2.1	1980	2000		1870	2130	2575
			900									
		13D	800	1100	2100	2.31	1680	1700	1970	2470	2730	3175
			900						2000			
Central **		6	800	1000	1250	1.25	1780	1830	1990	1575	1790	2325
		7	800	1000	1300	1.3			1990	1625	1840	2375
		8	800	1100	1400	1.54			2090	1725	1940	2475
			900				1960	2010				
		9	800	1100	1450	1.59	1780	1830	2090	1775	1990	2525
			900				1960	2010				
		10D	800	1100	1600	1.76	1785	1810	2000	1925	2140	2675
			900				1970	2010	2080			
		10W	800	1350	1400	1.89	1930	1970	2256	1725	1940	2475
			900				1980	2000				
		12	800	1400	1500	2.1				1825	2040	2575
			900				1990	2025	2340			
		13D	800	1100	2100	2.31	1785	1810	2000	2425	2640	3175
			900				1970	2010	2080			
		13W	900	1600	1400	2.24	2170	2200	2500	1725	1940	2475
		15W	900	1600	1550	2.48	2170	2200	2500	1875	2090	2625

Dimensions in mm and areas in m2

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 260 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 215 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check product table. Last height 3.3).

4 - Box blueprint - SLIM DOOR / DO2000

Entrance		DO 2000 / SLIM Door										
		Pass	Leng. (LL)	Cab (internal dimension)			Box HW			Box HD (5)		
				CW	CD	Area	MP (6)	Restart. (2)	max	MP (6)	max***	max**”
	Central *	6D	800	1000	1250	1.25	1520	1550	1990	1605	1850	2325
		7D	800	1000	1300	1.3	1520	1550	1990	1655	1900	2375
		8D	800	1100	1400	1.54	1610	1640	2090	1755	2000	2475
			900				1650	1690				
		9D	800	1100	1450	1.59	1610	1640	2090	1805	2050	2525
			900				1650	1690				
		10D	800	1100	1600	1.76	1680	1700	1970	1955	2200	2675
			900						2000			
		10W	800	1350	1400	1.89	1930	1970	2256	1755	2000	2475
			900									
		12W	800	1400	1500	2.1	1980	2000		1855	2100	2575
			900									
		13D	800	1100	2100	2.31	1680	1700	1970	2455	2700	3175
			900						2000			
		15D(7)	1100	1200	2200	2.64	2000	2050	2250	2555	2800	3275
	Central **	6D	800	1000	1250	1.25	1785	1830	1990	1575	1790	2325
		7D	800	1000	1300	1.3			1990	1625	1840	2375
		8D	800	1100	1400	1.54			2090	1725	1940	2475
			900				1990	2010				
		9D	800	1100	1450	1.59	1785	1830	2090	1775	1990	2525
			900				1990	2010				
		10D	800	1100	1600	1.76	1785	1810	2000	1925	2140	2675
			900				1980	2010	2080			
		10W	800	1350	1400	1.89	1930	2010	2256	1725	1940	2475
			900				1990					
		12W	800	1400	1500	2.1	1930			1825	2040	2575
			900				1990	2025	2340			
			1100				2380	2420	2500			
		13D	800	1100	2100	2.31	1785	1810	2000	2425	2640	3175
			900				1980	2010	2080			
		13W	900	1600	1400	2.24	2160	2200	2500	1725	1940	2475
			1100				2400	2440				
		15W	900	1600	1550	2.48	2160	2200	2500	1875	2090	2625
			1100				2400	2440				

Dimensions in mm and areas in m²

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 245 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 215 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check product table. Maximum Height 3.3).

Notes:

1. Number of Entrances = 1 means that all entrances must be on the same side and Number of Entrances = 2 means there are front and back entrances (see number of entrances limitation in 2.1).

2. Smaller than recommended dimensions should be minimal (see product table 3.1).

3. Central entrance doors are not centered with the cab.

4. For cabs with one entrance there is no maximum limit for HD dimension.

5. The reported HD dimension is for floor doors installed at threshold progress. With floor doors (including opposite entrances) installed on the hall (without threshold progress) the HD dimension can be reduced to a value equal to those in the following table:

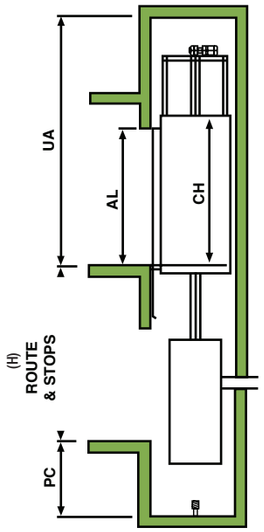
6. MP indicates that the expressed value is considered as minimal (see product table 3.1).

7. Available only for “H” Aesthetics

Doors (type)	ENTRANCE	HD Reduction	
		One entrance	Opposite entrances
A	Central Opening	110	220
B	Side Opening	155	310
	Central Openingl	110	220
C	Side Opening	155	310
	Side Opening	140	280

1.5 m/s, 1.6 m/s and 1.75 m/s Speeds

1 - Box Elevation



Pass.	H (máx) (m)	Nº Stops (máx)	MH - Maximum Height (mm) [4] CH - Cab Height 2.200	2.300	2.500	PC. minimal (mm)[2]
4 6 7 8 9 10 12 13 15	54	20	3.560 [3]	3.660 [3]	3.860 [3]	1.100 [1]

Shaft depth

When required, the concrete piers location will be indicated on the assembly plant (created by the customer).

Maximum Height

When the maximum height is greater than 4,200mm, the customer shall construct beams for fastening the hooks required for the installation process to a height of 4.20mm above the upper end stop floor level.

Gen2 Comfort: VWF technology with regenerative drive/ Without a Machine room

Free span required for floor doors installation

The dimensions of the free span for floor doors installation will be indicated in our assembly plant.

Maximum distance between stops (m)	Minimum distance between stops (mm)	
11 m (limit established by the ABNT standard so an emergency door between floors is not required)	With same-side entrances	Limited by the span required for installation of the floor doors
	With opposite entrances	500 mm

Maximum distance between intermediate belts (mm)

When the distance between two consecutive floors is greater than 3,000 mm, it is mandatory to construct an intermediate belt between these floors (on customer’s behalf).

Notes:

(1) The well must be 1400 mm for the following conditions:

a) trajectory over 45 meters (147 feet) and capacity of 1000 kg (2204 pounds) ; or
b) trajectory over 45 meters (147 feet) and capacity of 650 kg (1433 pounds) ; or

(2) Where the depth of the well is greater than the recommended, provide concrete piers (provided by the customer) to support the guide and bumper supports.

(3) When HD is higher than indicated in (**** max) (see product table in 3.2) add 200 mm to the indicated MH.

(4) Maximum special height for cage, 1000mm height (see product table LMR-05).

Additional information:

- The resulting efforts from the box structure, the machine enclosure and the bottom of the shaft will be informed at the Assembly Plant.
- The MH dimension (Maximum Height) and SH (Shaft) indicated in the tables above are the minimum required for the equipment installation and to meet the break standards required by the ABNT standard (NBR 16042) and by the Otis global safety standard (WWJSSS).
- Under the shaft, it is recommended the complete absence of accessible space to people (for circulation).
- In case there is accessible space (circulation) to people under the shaft, the customer must construct - under the counterweight bumper projection - a strong pillar that extends down to the ground. If not available, the counterweight must have safety brakes (on request).
- The control cabinet is designed to be mounted superimposed on the doorframe panel or superimposed on the wall. It can not be embedded directly into the wall, or enclosed in a way that its ventilation is impaired.
- The elevator without an engine room does not apply to buildings with private hall.
- Watch out for ventilation openings requirement on the top of the elevator's race box.
- Temperatures in the machine and control enclosures should be kept within the range of 5º to 40ºC.

Dimensões em mm

2 - Box blueprint - Front Door/ AT120

Opening		AT120 1 Front Door										
		Pass.	Leng. (LL)	Cab (internal dimension}			Box HW			Box HD (5)		
				CW	CD	Area	MP (6)	Restart. (2)	max	MP (6)	max***	max****
Side *		6D	800	1000	1250	1.25	1520	1550	1990	1600	1840	2325
		7D	800	1000	1300	1.3	1520	1550	1990	1650	1890	2375
		8D	800	1100	1400	1.54	1610	1640	2090	1750	1990	2475
			900				1650	1690				
		9D	800	1100	1450	1.59	1610	1640	2090	1800	2040	2525
			900				1650	1690				
		10D	800	1100	1600	1.76	1680	1700	1970	1950	2190	2675
			900						2000			
		10W	800	1350	1400	1.89	1930	1970	2256	1750	1990	2475
			900									
		12W	800	1400	1500	2.1	1980	2000		1850	2090	2575
			900									
		13D	800	1100	2100	2.31	1680	1700	1970	2450	2690	3175
			900						2000			
		15D	900	1200	2200	2.64	1750	1800	2270	2550	2790	3275
Central **		6D	800	1000	1250	1.25	1780	1830	1990	1555	1750	2325
		7D	800	1000	1300	1.3			1990	1605	1800	2375
		8D	800	1100	1400	1.54			2090	1705	1900	2475
			900				1960	2010				
		9D	800	1100	1450	1.59	1780	1830	2090	1755	1950	2525
			900				1960	2010				
		10D	800	1100	1600	1.76	1785	1810	2000	1905	2100	2675
			900				1970	2010	2080			
		10W	800	1350	1400	1.89	1930	1970	2256	1705	1900	2475
			900				1980	2000				
		12W	800	1400	1500	2.1	1970	2000		1805	2000	2575
			900				1990	2025	2340			
		13D	800	1100	2100	2.31	1785	1810	2000	2405	2600	3175
			900				1970	2010	2080			
		13W	900	1600	1400	2.24	2170	2200	2500	1705	1900	2475
		15D	900	1200	2200	2.64	2000	2050	2270	2505	2700	3275
		15W	900	1600	1550	2.48	2170	2200	2500	1855	2050	2625

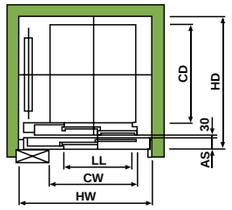
Dimensions in mm and areas in m²

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 240 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 195 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check product table. Maximum Height 3.3).

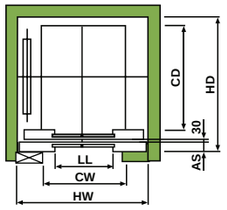
3 - Box blueprint - Front Door/ DO2000

Right hand as shown - Left hand backwards

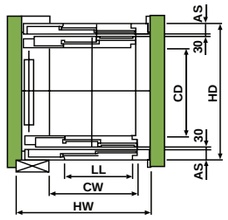
Side opening doors
One entrance



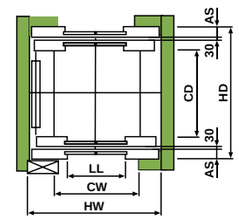
Central opening doors
One entrance



Side opening doors
Two entrances: front and reverse



Central opening doors
Two entrances: front and reverse



Opening		DO 2000 / Front Door										
		Pass.	Leng. (LL)	Cab (internal dimension)			Box HW			Box HD (5)		
				CW	CD	Area	MP (6)	Restart. (2)	max	MP (6)	max***	max***
Side*		6D	800	1000	1250	1.25	1520	1550	1990	1620	1880	2325
		7D	800	1000	1300	1.3	1520	1550	1990	1670	1930	2375
		8D	800	1100	1400	1.54	1610	1640	2090	1770	2030	2475
			900				1650	1690				
		9D	800	1100	1450	1.59	1610	1640	2090	1820	2080	2525
			900				1650	1690				
		10D	800	1100	1600	1.76	1680	1700	1970	1970	2230	2675
			900						2000			
		10W	800	1350	1400	1.89	1930	1970	2256	1770	2030	2475
			900									
		12W	800	1400	1500	2.1	1980	2000		1870	2130	2575
			900									
		13D	800	1100	2100	2.31	1680	1700	1970	2470	2730	3175
			900						2000			
Central **		6D	800	1000	1250	1.25	1780	1830	1990	1575	1790	2325
		7D	800	1000	1300	1.3			1990	1625	1840	2375
		8D	800	1100	1400	1.54			2090	1725	1940	2475
			900				1960	2010				
		9D	800	1100	1450	1.59	1780	1830	2090	1775	1990	2525
			900				1960	2010				
		10D	800	1100	1600	1.76	1785	1810	2000	1925	2140	2675
			900				1970	2010	2080			
		10W	800	1350	1400	1.89	1930	1970	2256	1725	1940	2475
			900				1980	2000				
		12W	800	1400	1500	2.1				1825	2040	2575
			900				1990	2025	2340			
		13D	800	1100	2100	2.31	1785	1810	2000	2425	2640	3175
			900				1970	2010	2080			
		13W	900	1600	1400	2.24	2170	2200	2500	1725	1940	2475
		15W	900	1600	1550	2.48	2170	2200	2500	1875	2090	2625

Dimensions in mm and areas in m2.

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 260 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 215 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check product table. Maximum Height 3.3).

4 - Box blueprint - SLIM DOOR / DO2000

		DO 2000 / SLIM Door									
		Pass	Leng. (LL)	Cab (internal dimension)			Box HW			Box HD (5)		
				CW	CD	Area	MP (6)	Restart. (2)	max	MP (6)	max***	max***
Opening	Central *	8D	800	1100	1400	1.54	1710	1810	2090	1755	2000	2475
			900				1760					
		9D	800	1100	1450	1.59	1710	1810	2090	1805	2050	2525
			900				1760					
		10D	800	1100	1600	1.76	1710	1810	2090	1955	2200	2675
			900				1760					
		10W	800	1350	1400	1.89	1950	2030	2256	1755	2000	2475
			900									
		12W	800	1400	1500	2.1	2000	2060		1855	2100	2575
			900									
		13D	800	1100	2100	2.31	1710	1810	1970	2455	2700	3175
			900				1760		2000			
	Central **	8D	800	1100	1400	1.54	1785	1880	2090	1725	1940	2475
			900				1990	2060				
		9D	800	1100	1450	1.59	1785		2090	1775	1990	2525
			900				1990					
		10D	800	1100	1600	1.76	1785		2090	1925	2140	2675
			900				1990					
		10W	800	1350	1400	1.89	1980		2256	1725	1940	2475
			900				2010					
		12W	800	1400	1500	2.1	2000			1825	2040	2575
			900				2050	2120	2340			
			1100				2400	2450	2500			
		13D	800	1100	2100	2.31	1785	1860	2000	2425	2640	3175
			900				1990	2010	2080			
		13W	900	1600	1400	2.24	2200	2250	2500	1725	1940	2475
			1100				2400	2450				

Dimensions in mm and areas in m²

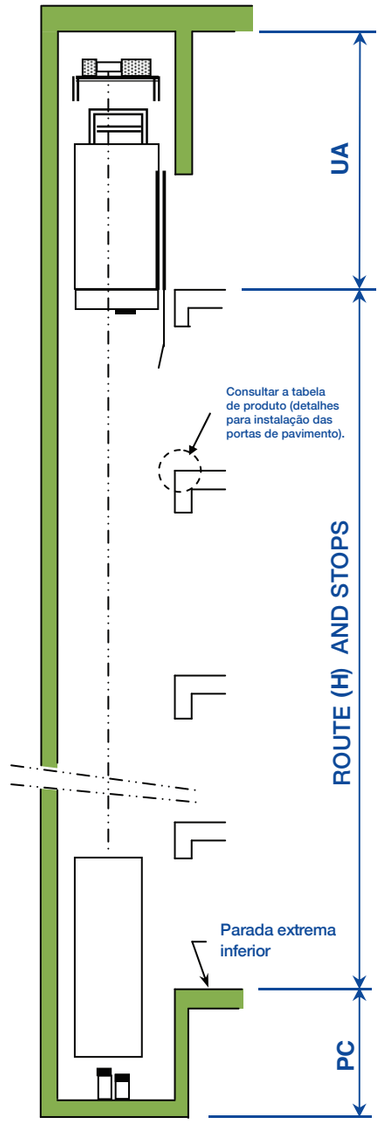
* Dimensions valid for one entrance only. For 2 entrances (front and back) add 245 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 215 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check Maximum Height 3.3).

Notes:
1. Number of Entrances = 1 means that all entrances must be on the same side and Number of Entrances = 2 means there are front and back entrances.
2. Smaller than recommended dimensions should be minimal.
3. Central entrance doors are not centered with the cab.
4. For cabs with one entrance there is no maximum limit for HD dimension.
5. The reported HD dimension is for floor doors installed at threshold progress. Floodgate floors (including opposite entrances) installed on the hall (without threshold progress) the HD dimension can be reduced to a value equal to those in the table below:

Door Panel:	Doors type	HD Reduction	
		One entrance	Opposite entrances
A	Central Opening	110	220
	Side Opening	155	310
B	Central Opening	110	220
	Side Opening	155	310
C	Central Opening	110	220
	Side Opening	140	280

6. MP indicates that the expressed value is considered as minimal.
7. With AC-510, AC-511, AC-512, AC-513, AC-514, AC-515, AC-516, AC-517, AC-518, AC-519, AC-520 or AC-521 decorative ceiling, the internal height of the cab must be reduced by 100 mm.

1 - Box Elevation



Pass.	Vel. (m/s)	H (máx) (m)	Nº Stops (máx)	MH - Maximum Height (mm)			PC. minimal (mm) (1)
				CH - Cab Height			
				2.200	2.300	2.500	
8 9 10 12 13	2.5	90	33	4700 (2)	4700 (2)	4700 (2)	1700

Maximum Height

When the maximum height is greater than 5000mm, the customer shall construct beams for fastening the hooks required for the installation process to a height of 500mm above the upper end stop floor level.

Maximum distance between stops (m)

11 m (limit established by the ABNT standard so an emergency door between floors is not required)

Minimum distance between stops (mm)

With same-side entrances	**
With opposite entrances	500 mm

Maximum Height and shaft values indicated are the minimum values required for the equipment installation, meeting the break requirements from Standard NBR 16042 and WWJSSS

Under the shaft, must have no accessible space for people

**** Minimum height between floors for door installation**

Free Height		2000			2100		
Door Assembly		Without progress	Concrete Progress	Metal Progress	Without progress	Concrete Progress	Metal Progress
TYPE	FRONT	2680	2850	2680	2780	2950	2780
	SLIM	2680	2900	2750	2780	3000	2850

Notes:

The resulting efforts from the box structure will be informed at the Assembly Plant.

(1) Where the depth of the well is greater than the recommended, provide concrete piers (provided by the customer) to support the guide and bumper supports.

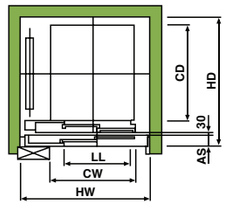
(2) When HD is higher than indicated in (**** max) (see product table in 3.2) add 200 mm to the indicated MH.

(3) Maximum special height for cage, 1000mm height (see LMR-05).

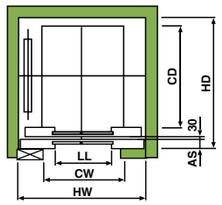
2 - Box blueprint - Prima Door/ AT120

Right hand as shown - Left hand backwards

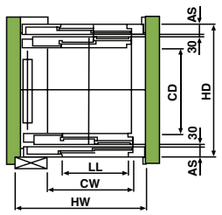
Side opening doors
One entrance



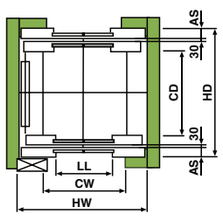
Central opening doors
One entrance



Side opening doors
Two entrances: front and reverse



Central opening doors
Two entrances: front and reverse



		AT120 1 Prima Door									
		Pass.	Leng. (LL)	Cab (internal dimension) CW	CD	Area	Box HW MP (6)	Restart. (2)	max	Box HD (5) MP (6)	max**	max****
Opening	Side *	8D	800	1100	1400	1.54	1710	1810	2090	1750	1990	2475
			900				1760					
		9D	800	1100	1450	1.59	1710	1810	2090	1800	2040	2525
			900				1760					
		10D	800	1100	1600	1.76	1710	1810	2090	1950	2190	2675
			900				1760					
		10W	800	1350	1400	1.89	1950	2030	2256	1750	1990	2475
			900									
		12W	800	1400	1500	2.1	2000	2060		1850	2090	2575
			900									
		13D	800	1100	2100	2.31	1710	1810	1970	2450	2690	3175
			900				1760		2000			
	Central **	8D	800	1100	1400	1.54	1780	1880	2090	1705	1900	2475
			900				1960	2060				
		9D	800	1100	1450	1.59	1780	1880	2090	1755	1950	2525
			900				1960	2060				
		10D	800	1100	1600	1.76	1780	1880	2090	1905	2100	2675
			900				1960	2060				
		10W	800	1350	1400	1.89	1950	2030	2256	1705	1900	2475
			900				2010	2060				
		12W	800	1400	1500	2.1	2000	2060		1805	2000	2575
			900				2050	2080	2340			
		13D	800	1100	2100	2.31	1785	1860	2000	2405	2600	3175
			900				1970	2010	2080			
		13W	900	1600	1400	2.24	2200	2250	2500	1705	1900	2475

Dimensions in mm and areas in m²

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 240 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 195 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check Maximum Height 3.3).

3 - Box blueprint - Slim Door/ DO2000

		DO 2000 / Slim Door										
		Pass.	Leng* (LL)	Cab (internal dimension) CW	CD	Area	Box HW MP (6)	Restart. (2)	max	HD Box (5) MP (6)	max"**	max***
Opening	Side*	8D	800	1100	1400	1.54	1710	1810	2090	1770	2030	2475
			900				1760					
		9D	800	1100	1450	1.59	1710	1810	2090	1820	2080	2525
			900				1760					
		10D	800	1100	1600	1.76	1710	1810	2090	1970	2230	2675
			900				1760					
		10W	800	1350	1400	1.89	1950	2030	2256	1770	2030	2475
			900									
		12W	800	1400	1500	2.1	2000	2060		1870	2130	2575
			900									
		13D	800	1100	2100	2.31	1710	1810	1970	2470	2730	3175
			900				1760		2000			
	Central **	8D	800	1100	1400	1.54	1780	1880	2090	1725	1940	2475
			900				1960	2060				
		9D	800	1100	1450	1.59	1780	1880	2090	1775	1990	2525
			900				1960	2060				
		10D	800	1100	1600	1.76	1780	1880	2090	1925	2140	2675
			900				1960	2060				
		10W	800	1350	1400	1.89	1950	2030	2256	1725	1940	2475
			900				2010	2060				
		12W	800	1400	1500	2.1	2000	2060		1825	2040	2575
			900				2050	2080	2340			
		13D	800	1100	2100	2.31	1785	1860	2000	2425	2640	3175
			900				1970	2010	2080			
		13W	900	1600	1400	2.24	2200	2250	2500	1725	1940	2475

Dimensions in mm and areas in m²

* Dimensions valid for one entrance only. For 2 entrances (front and back) add 260 mm in HD - MP
** Dimensions valid for one entrance only. For 2 entrances (front and back) add 215 mm in HD - MP
***max (valid for 2 entrances only).
***max (valid for 1 entrance only, check Maximum Height 3.3).

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