

H-BELT DRIVE SYSTEM



New + Experience + X(Everything)

NEX FEATURES AN ECO-FRIENDLY BELT SYSTEM WITH THE MOST ADVANCED TECHNOLOGY.

Hyundai Elevator H-BELT DRIVE SYSTEM

This highly advanced belt system is near silent with high space efficiency.





BEL

Life X3

H-Belt has 3 times longer life expectancy than the wire rope



Safe Hyundai's Unique Mechanical Slack Switch System



Crowned sheave design is applied to mitigate the misalignment of belts, maximizing the passenger satisfaction with safe and smooth ride

POINT OF H-BELT BENEFIT

Manufactured by an European maker

Item	Hyundai Elevator	VS	Industry Standard
Country of Origin	Europe (Italy)	>	China
Coating Material	Polyurethane + * TPU film	>	Polyurethane
Min. Breaking Strength	52kN	>	43kN

* TPU(Thermoplastic Polyurethane): non-toxic eco-friendly material that is highly elasticity and durable against abrasion. It shows very low deformation over time.

Self Belt Cleaning System

N:EX features a belt cleaning system that removes debris stick to the belt before going through the main sheave. It helps for easier maintenance than wire rope.

- a. Prevents sheave damage
- b. Easier maintenance
- c. Higher ride comfort

3 times longer life expectancy

H-BELT has up to 3 times longer life expectancy than the traditional wire rope. It also has 15 years of replacement cycle, where else the wire rope's life cycle is 4 to 5 years(recommended replacement cycle).

Oil free system

H-Belt is eco-friendly. The conventional wire rope needs to be regularly greased. But, the belt system is semi-permanent and minimizes maintenance effort.

POINT OF MECHANICAL BENEFIT

Mechanical Slack Belt System

Mechanical Slack Belt System activates when the belt is damaged and it detects belt error.

- a. Reducing number of Break down
- b. Minimizing trapped accident
- c. Reducing maintenance costs

Crown effect keeps belt to the center of the sheave pulley

Traction machine sheave is carefully designed in the shape to take advantage of the "Crown effect " keeping the belt at the center of the sheave.

- a. Reducing vibration and noise
- b. Smoother ride
- c. Increasing safety

85% smaller traction machine

The size of traction machine has been reduced by 85% as a result of smaller radius of curvature compared to MR counter part. It allows for easier installation and higher space utilization.

COST SAVING

TCO (Total Cost of Ownership)

The top quality H-belt enables longer life span, low break down rates, guick and easy maintenance. H-Belt in the long-run is the perfect choice













移植物建物医物

N:EX **INTERIOR** DESIGN

Design solution by theme

Hyundai Elevator put a new spin on the shared moving space. N:EX interior design is inspired from various spaces such as natural forest, luxury boutique, chic & modern urban.

Item	Option	Items	Option
Capacity (kg)	Refer to specification	Code	EN81-20
Speed (m/min)	Refer to specification	Fire Door	
Max. Rise (m)	80m	(Only for STS or SPCC)	EOU, E9U, E12U

Car Wall

FORET PLUS NEX_WB2





Front View (P13, 1000kg)

Front View (P13, 1000kg)

200 Type

Car Wall

Entrance

200 Type

Car Wall

Entrance

200 Type

Car Wall

Entrance

Specification

Specification

Specification

VCM-PW, VCM-BDW, D-metal (PCM2-WD)

100 Type

100 Type

Multi Metal (SLH-BKST2)

50 Type

Stainless Hairline, Stainless Mirror,

Multi Metal (SLH-BRZ), High Metal (SLH-BRZ)

GLACIER PLUS NEX_GW2



Rear View (P13, 1000kg)

TERRACE NEX_SB



Rear View (P13, 1000kg)











200 Type



100 Type



Stainless Hairline, Stainless Mirror,

100 Type





50 Type



50 Type



50 Type

(Unit: mm)

(Unit: mm)

MRL SPECIFICATION

Standard Dimension & Reactions

Speed	Capacity	Desserves	Door Width	Door Height	Car Size	Hoistway Size	Rea	Reacion	
(m/min)	(Kg)	Passenger -	OP	EH	CA × CB	X × Y	R1 (CAR)	R2 (CWT)	
	550	7	800	2100	1250×1150	1850×1480	6300	5180	
- 60	600	8	800	2100	1250×1240	1850×1570	6440	5180	
	700	9	800	2100	1250×1350	1850×1680	6720	5320	
90	750	10	800	2100	1250×1450	1850×1780	7000	5460	
105	900	12	900	2100	1600×1350	2150×1680	7560	5600	
	1000	13	900	2100	1600×1400	2150×1730	8820	6720	
	1150	15	1000	2100	1800×1400	2350×1730	9240	6860	

▲ Notes

1. The above dimensions of the N:EX as per EN81-20 standard. For other country specific standards and spec requirements, please contact us.

2. The above dimensions are only for center opening door. For side opening door, please contact us.

3. If the distance between the sills of consecutive floor is over 11m(In case of firefighter lift is 7m), please consult us. Emergency exits may be required.

4. In case of duplex arrangement, please secure more than 500mm distance between the cars is required. If not, a middle partition is required in the hoistway.

5. In case of steel structure, it needs steel members that have force over than R1 and R2.

6. N:EX is not available for through type. Please consult us for further information.

Overhead & Pit Depth

Speed	Capacity	Decompos	Overhead(OH)	Dit	Control Panel		
(m/min)	(Kg)	Passenger	(BEST/GENERAL)	Pit	Width		
60			3750/4150	1100			
90	550-1150	7-15	3900/4300	1250	400		
105	105		3950/4350	1300	-		

▲ Notes 1. The above dimensions are for car height 2,500mm. If the car height is needed under 2,500mm, please consult us.

2. The above dimensions are minimum standard. Design a building considering the standard error.

3. The maximum travel height is 80m.(It is changeable according to speed. Please check with us)

4. If you want an optimal dimensions for your project with the site conditions considered, please consult with us.

5. In case of fire-fighter lift or applied emergency exit door on car top, the Overhead(OH) should be increased as below. - EN81-20 : OH+50mm

6. Best OH dimensions are only applicable if the hoistway size is matching with standard dimension as above.

7. A capacity of 450kg is also available, please contact us if you need related specification.

8. Capacities of 1350kg-1600kg with 60m/min are also available, please contact us if you need related specification.

(Unit: mm)

(Unit: mm)

MR SPECIFICATION

Standard Dimension & Reactions

			Door	Car	Car Size Hoistway Size		M/C Room				M/C Room		Pit				
Speed Capacity Passen (m/min) (Kg)	Passenger	Width	Internal	External	Simplex	Duplex	Triplex	Depth	Simplex	Duplex	Triplex	Depth	Rea	tion	Rea	tion	
			OP	CA × CB	A × B	х	X2	Х3	Y	мх	MX2	MX3	MY	R1 (CWT)	R2 (CAR)	R3 (CAR)	R4 (CWT)
	550	7	800	1250×1150	1310×1305	1750	3600	5450	1780	2000	4000	6000	3500	1769	1438	6300	5180
60 90 105	600	8	800	1250×1240	1310×1395	1750	3600	5450	1870	2000	4000	6000	3600	1907	1445	6580	5320
	700	9	800	1250×1350	1310×1505	1750	3600	5450	1980	2000	4000	6000	3700	1733	1215	5880	4340
	750	10	800	1250×1450	1310×1605	1750	3600	5450	2080	2000	4000	6000	3800	2124	1481	7000	5460
	900	12	900	1600×1350	1660×1505	2000	4100	6200	1980	2300	4400	6500	3700	2244	1570	7560	5600
	1000	13	900	1600×1400	1660×1555	2000	4100	6200	2030	2300	4400	6500	3800	2629	1806	8820	6720
	1150	15	1000	1800×1400	1860×1555	2200	4500	6800	2030	2500	4800	7100	3850	2784	1869	9380	6860

▲ Notes

1. The above dimensions of the N:EX as per EN81-20 standard, For other country specific standards and spec requirements, please contact us.

2. The above dimensions are only for center opening door. For side opening door, please contact us.

3. If the distance between sills of consecutive floor is over 11m(In case of firefighter lift is 7m), please consult us as. Emergency exits may be required.

4. In case of duplex arrangement, please secure more than 500mm distance between the cars is required. If not, a middle partition is required in the hoistway.

5. In case of steel structure, it needs steel members that have force over than R1 and R2.

6. N:EX is not available for through type. Please consult us for further information.

7. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(If necessary) and humidity below 90%

8. Install cinder concrete below maximum 100mm.

Overhead & Pit Depth

Speed (m/min)	Capacity (Kg)	Passenger	Overhead(OH) (BEST/GENERAL)	Pit	M/C Room Height
60			4100/4500	1100	
90	550-1150	7-15	4250/4650	1250	2100
105	105		4350/4750	1300	

▲ Notes 1. The above dimensions are for car height 2,500mm. If the car height is needed under 2,500mm, please consult us.

2. The above dimensions are minimum standard. Design a building considering the standard error.

3. The maximum travel height is 80m. (It is changeable according to speed. Please check with us)

4. If you want an optimal dimensions for your project with the site conditions considered, please consult with us.

5. Best OH dimensions are only applicable if the hoistway size is matching with standard dimension as above.

6. A capacity of 450kg is also available, please contact us if you need related specification.

7. Capacities of 1350kg-1600kg with 60m/min are also available, please contact us if you need related specification.

(380V)

ELECTRIC POWER REQUIREMENT

Building Power Facility

Speed	Capacity	Passangor	Motor	MCCB (Capacity A)	Power Ca (mr	able Size n²)	Earth W (mr	/ire Size n²)	Power Capaci	Supply ty (kVA)
(m/min)	(Kg)	Fassenger	(kW)	Simplex	Duplex	Simplex	Duplex	Simplex	Duplex	Simplex	Duplex
60			4.4	20	30	4	6	4	6	9	17
90	550	7	6.5	20	40	4	10	4	10	12	23
105	_		7.6	30	50	6	16	6	16	13	26
60			4.8	20	30	4	6	4	6	9	18
90	600	8	7.1	20	40	4	10	4	10	13	25
105	_		8.3	30	50	6	16	6	16	14	28
60			5.5	20	40	4	10	4	10	10	20
90	700	9	8.3	30	50	6	16	6	16	15	29
105	_		9.7	30	60	6	16	6	16	17	33
60			5.9	20	40	4	10	4	10	11	22
90	750	10	8.9	30	50	6	16	6	16	16	31
105	_		10.3	30	60	6	16	6	16	18	36
60			7.1	20	50	4	16	4	16	13	26
90	900	12	10.6	30	60	6	16	6	16	18	36
105	_		12.4	40	75	10	25	10	16	21	42
60			7.9	30	50	6	16	6	16	14	28
90	1000	13	11.8	40	75	10	25	10	16	21	41
105			13.8	40	75	10	25	10	16	24	47
60			8.7	30	50	6	16	6	16	15	29
90	1150	15	13	40	75	10	25	10	16	22	44
105			15.2	40	100	10	35	10	16	26	51

▲ Notes 1. The above table is for lengths of electric wire to 50 meters from the machine room to the building transformer.

2. The above power feeder thickness are based on copper wires use and metallic tubing.

3. Over triplex, please contact us.