

TE-HP

Passenger Elevators



ThyssenKrupp

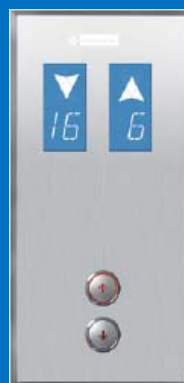
State-of-the-art Control System

THYSSENCONTROL MULTICAN (TCM) is a remarkable combination of the up-to-date computer development and the leading elevator control technology equipped with CAN-BUS which does not only supply accurate, stable and reliable data and signals for the control, but also facilitates future system upgrading. The control system takes self corrections and records the lift operating data in memory in order to provide reliable technical reference for the field engineering who does the trouble shooting by means of incorporated interfaces for both on-site inspection and remote monitoring via TELESERVICE. It is fully applied with EN EMC Standard.



Option

In case of applying regenerative braking control system



STEP-MODULE allows individual solutions for the arrangement of operating elements.

A supervision panel is used for checking the constant travelling for the elevators. For immediate identification of an emergency situation a supervision panel is necessary.

Operating and indicating elements user friendly and unique.

Door protection system increases the speed of elevator operation and the safety.



TELESERVICE is an integrated part of the control system. It provides fastest qualified response through direct data transfer. First-class service around the clock, 24 hours/7 days. Express spare parts delivery, remote TELESERVICE and well-trained ThyssenKrupp staffs offer prompt service for our customers.



Ensure Customer to enter/exit cabin in a safe and efficient way

Eco Efficient Traction & Driving System

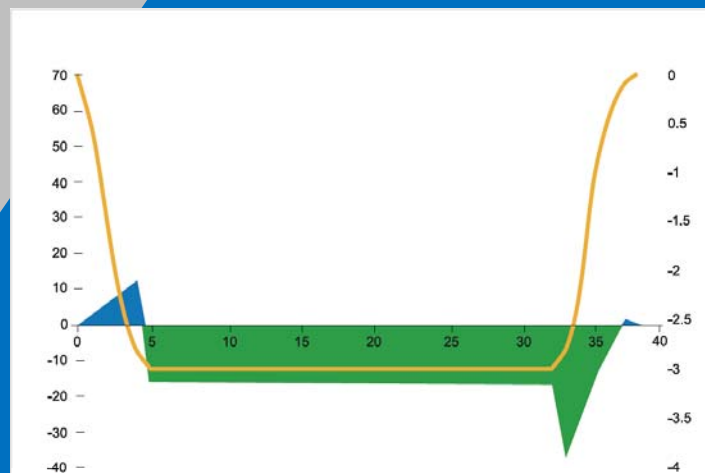


PMS Traction Machine

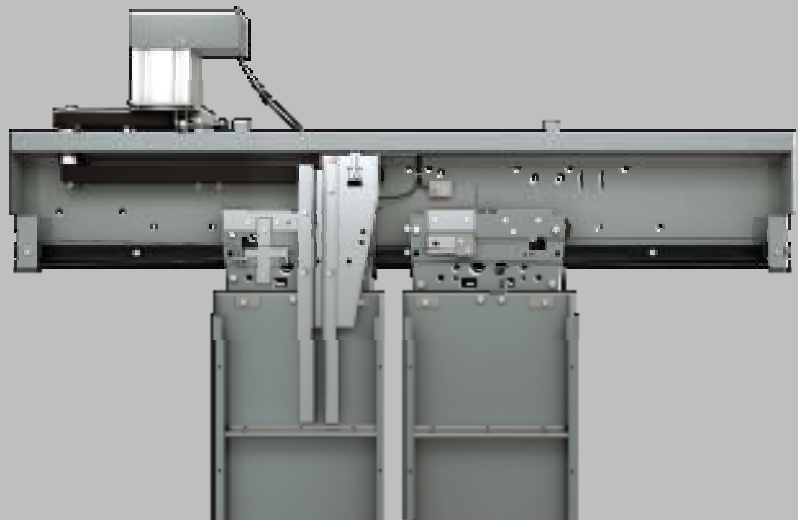
- Highly-efficient and energy-saving PMS motor;
- Rigorous German design and global manufacturing standard;
- Strong power, compact structure, steady running and long durability;
- Safe and reliable German-designed brake;
- Environment-friendly, energy-saving, little noise, No need for lubricate maintenance, no grease pollution;
- Precise Speed pulse generator with high control precision.

Energy Regenerative Braking Technology

- Energy regenerative braking technology which originates from Germany reduces energy consumption up to 30%. The technology is green, environmental friendly, energy saving and with precise control. It converts wasted heat energy to electric energy and feeds back to electric fence and recycling.
- ThyssenKrupp energy regenerative braking technology is designed for an energy-hungry world.



Safe and Comfortable Unique Design



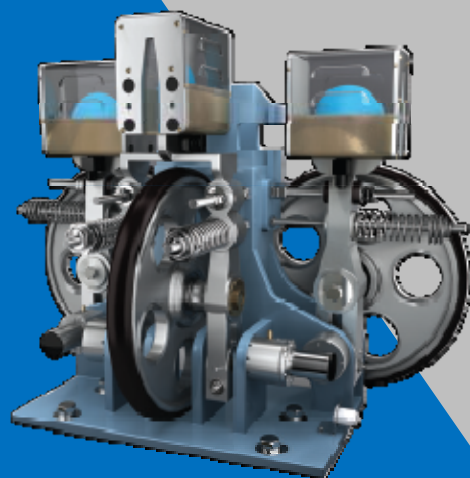
Door System

- PMS AC Door System has compact structure;
- Door-closing torque examination in real time ensures safety and reliability;
- Full-width safety light curtain ensures passenger safety;
- Bottom absorbs door machine's vibration and noise by car floor frame;
- Seamless car door accords with fireproof door standard and effectively prolongs rescue time (Optional).



Roller Guide Shoe

- Automatic roller guide shoe is designed for high speed elevator. It absorbs the vibration in the car.

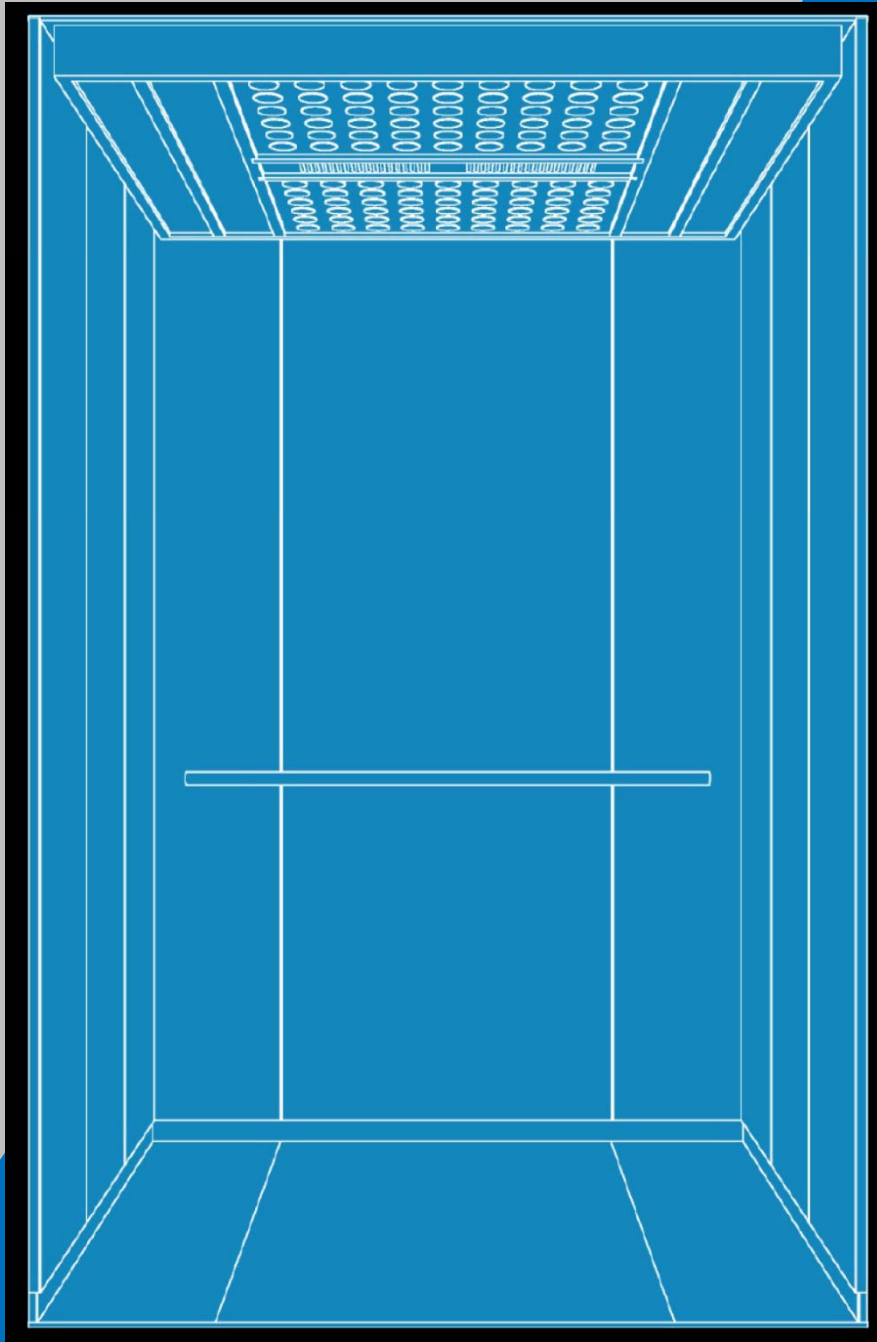


Advanced Technology Builds Quality

Flexible & Diversified Individuated Decoration

Customized Solution for Elevator Car Decoration

HP61 effectively breaks through the limitation of elevator decoration – higher ceiling height, wider door opening and plenty of decoration material selections.



Flexible & Diversified Individuated Decoration



CB1-HE
Optional

Ceiling : Moon Light
Car Wall : Short Hairline St. St
+ Mirror St. St
Floor : CFL010

CB2-HE
Optional

Ceiling : Snow Biz
Car Wall : Short Hairline St. St
+ Mirror St. St
Floor : Patterned PVC



Flexible & Diversified Individuated Decoration

CB3-HE *Optional*

Ceiling : Lotus
Car Wall : Short Hairline St. St
Etched Mirror St. St
Floor : Patterned PVC



CL1-HE *Optional*

Ceiling : Joy
Car Wall : Short Hairline St. St
Hairline Etched
Tempered Painted Glass
Floor : Patterned PVC

Flexible & Diversified Individuated Decoration



CL2-HE *Optional*

Ceiling : TSD010
Car Wall : Titanium Hairline St. St
Golden Sandy Glass
Floor : Patterned PVC

CL3-HE *Optional*

Ceiling : Serenity
Car Wall : Painted Coated Steel
Color Metal (KB03)
Mirror St. St
Floor : Patterned PVC



Flexible & Diversified Individuated Decoration

CL4-HE

Optional

Ceiling : Lake Shining
Car Wall : Mirror St. St
Color Metal (GC27)
Floor : Patterned PVC



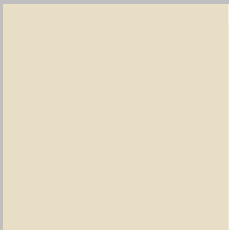
CL5-HE

Optional

Ceiling : Mellow
Car Wall : Short Hairline St. St
Color Metal (KB08)
Floor : Patterned PVC

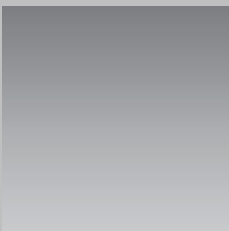
Colored Car Wall & Floor

Car Wall Colored Metal *Standard*

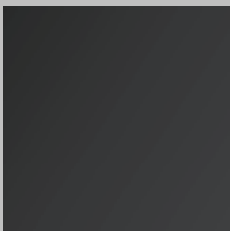


RAL1015

Car Wall Stainless Steel *Optional*



Hairline St. St.



Mirror St. St.



Titanium Hairline

Car Wall Colored Metal *Standard*



GC27



KB03

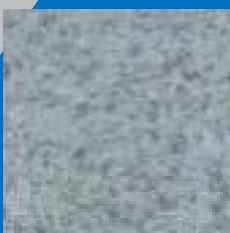


KB08

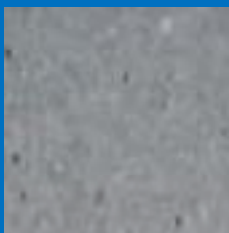
Floor PVC *Standard*



TCD314

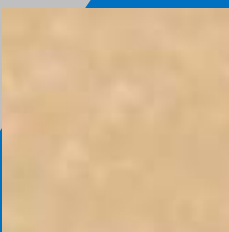


CFL010



TCD319

Floor PVC *Optional*



CFL008



CFL002

Double Car Operating Panel Samples



Sample
Optional

Indicator : 7.6" LCD
Button : Step C

Sample
Optional

Indicator : Dot Matrix
Button : Step C



Landing Side Samples



Sample
Standard

Jamb : Narrow Door Jamb

Sample
Optional

Landing : Short Hairline St. St
Door

Sample
Non-Standard

Jamb : Wide Door Jamb

Sample
Optional

Landing : Short Hairline St. St
Door



Landing Side Samples

Sample
Non-Standard

Jamb : Wide Door Jamb
+ Transom



Sample
Optional

Landing : Short Hairline St. St
Door



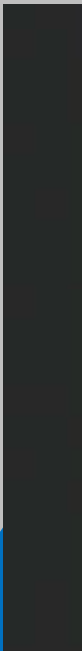
Sample
Optional

Hall : HL 104
Lantern



Sample
Non-Standard

Jamb : Wide Door Jamb
+ Transom



Sample
Optional

Landing : Short Hairline St. St
Door

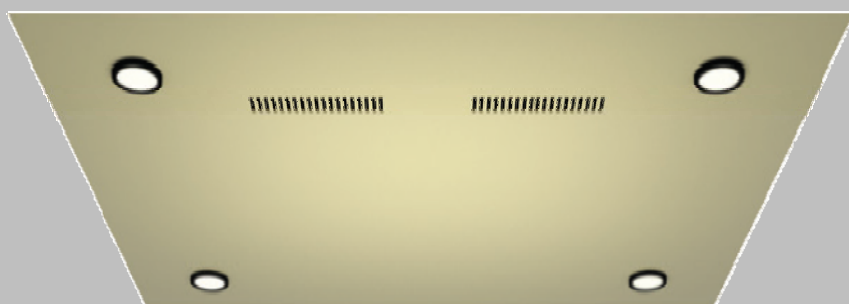


Sample
Optional

Hall : HL 101
Lantern

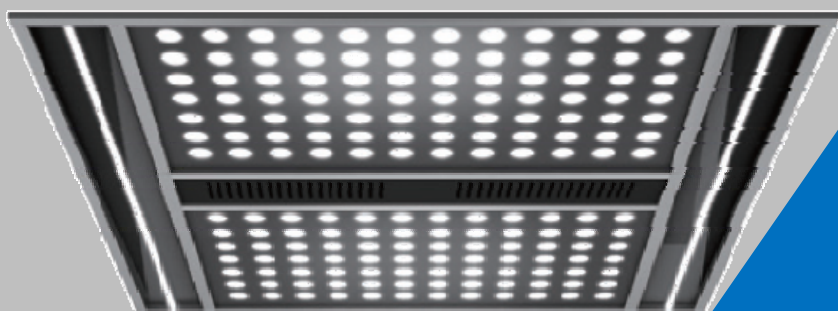


Ceiling



Standard

RF-CL1S



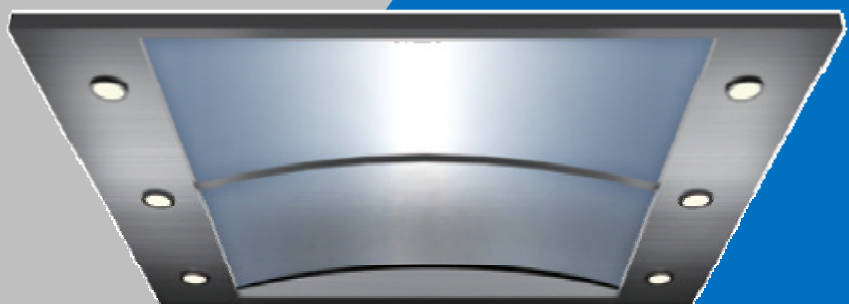
Optional

**Moon Light
LED Lights (Optional)**



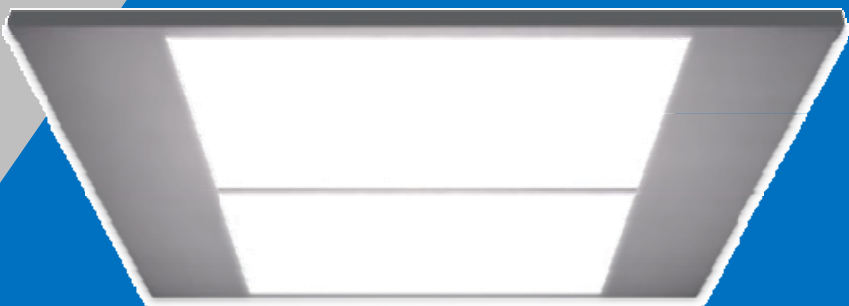
Optional

**Lotus
LED Lights (Optional)**



Optional

**Snow Biz
LED Lights (Optional)**



Optional

**Joy
LED Lights (Optional)**

Handrail

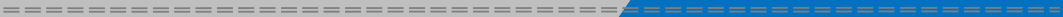
TSF01

Round Hairline Stainless Steel Handrail



TSF08

Flat Hairline Stainless Steel Handrail



TSF06

Round Wooden and Titan Handrail



HRA1

Round Wooden Handrail



HRA3

Golden Handrail



COP – Car Operating Panel

1.

2.

3.

1. Standard

Type : COP R-C03
Indicator : 7.6" LCD
Button : Step C



2. Optional

Type : COP R-D03
Indicator : 7.6" LCD
Button : BA21G



3. Optional

Type : COP R-C01
Indicator : Dot Matrix
Button : Step C



COP S-A01

COP S-B01

COP S-A02

4.



COP R-D01

5.



COP R-C104

6.



COP R-D104

4. Optional

Type : COP R-D01
Indicator : Dot Matrix
Button : BA21G

5. Non Standard

Type : COP R-C104
Indicator : 10.4 TFT LCD
Button : Step C

6. Non Standard

Type : COP R-D104
Indicator : 10.4 TFE LCD
Button : BA21G

LOP – Landing Operating Panel

Standard

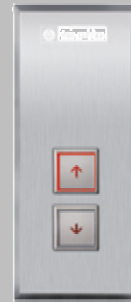
1.

Indicator : Dot Matrix
Button : Step C

1.



ALF-HI1



ALF-C01



ALS-C01



ALD-C01

Optional

2.

Indicator : 4.3" LCD
Button : Step C

2.



ALF-HI2



ALF-C01



ALS-C02



ALD-C02

3.

Indicator : Dot Matrix
Button : BA21G

3.



ALF-HI1



ALF-D01



ALS-D01



ALD-D01

Ultrathin indicating element

LIOP Face Plate:
Short hairline st. st

LOP – Landing Operating Panel



ALF-HI2



ALF-D01



ALS-D02



ALD-D02

4.

Optional

4.

Indicator : 4.3" LCD
Button : BA21G

5.

Firemen's Switch



TLF-HI1



TLF-C01



TLS-C01



TLD-C01

6.

6.

Indicator : Dot Matrix
Button : Step C



TLF-HI1



TLF-D01



TLS-D01



TLD-D01

7.

7.

Indicator : Dot Matrix
Button : BA21G

6. & 8.



A-FS01 & T-FS01

8.

Firemen's Switch

TE-HP61 (1.00 – 2.5 m/s)
Technical Specifications (Standard)

Rated Load	Rated Speed	Max Travel	Max. Stops	Central Doors WxH	Car Size WxDxH	Shaft Size WxD	Machine Room WxD
(kg)	(m/s)	(m)	(Nbr)	(mm)	(mm)	(mm)	(mm)
630	1.00	55	18	800 x 2100	1100 x 1400 x 2400	1800 x 2000	1800 x 2000
	1.60	85	30				
	1.75	85	30				
800	1.00	50	17	800 x 2100	1350 x 1400 x 2400	1900 x 2000	1900 x 2000
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
1000	1.00	50	17	900 x 2100	1600 x 1400 x 2400	2150 x 2000	2150 x 2000
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
1150	1.00	50	17	1100 x 2100	1800 x 1400 x 2400	2350 x 2000	2350 x 2000
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
1250	1.00	50	17	1100 x 2100	2000 x 1450 x 2400	2450 x 2160	2450 x 2160
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
1350	1.00	50	17	1100 x 2100	2000 x 1550 x 2400	2450 x 2260	2450 x 2260
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
1600	1.00	50	17	1100 x 2100	2000 x 1750 x 2400	2450 x 2460	2450 x 2460
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
1800	1.00	50	17	1100 x 2100	1950 x 1900 x 2400	2400 x 2700	3000 x 5000
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				
2000	1.00	50	17	1100 x 2100	2000 x 2000 x 2400	2450 x 2800	3050 x 5100
	1.60	75	26				
	1.75	90	31				
	2.00	110	32				
	2.50	125	32				

Rated Speed	Overhead (mm)				Pit (mm)				
(m/s)	630 kg	800 1150 kg	1250 1600 kg	1800 2000 kg	630 kg	800 1150 kg	1250 1600 kg	1800 kg	2000 kg
1.00	3750	3750	4100	4250	1250	1250	1300	1800	1800
1.60	3900	3900	4450	4350	1300	1300	1400	1850	1900
1.75	3900	3900	4500	4550	1300	1300	1400	1900	1950
2.00	-	4000	4550	4650	-	1350	1400	1950	2000
2.50	-	4750	4750	4850	-	1750	1750	2250	2250

TE-HP61 (3.00 – 6.00 m/s) Technical Specifications (Standard)

Rated Load	Passenger	Rated Speed	Max Travel	Central Doors WxH	Car Size WxDxH	Shaft Size WxD	Machine Room WxD		
(kg)	Nbr	(m/s)	(m)	(mm)	(mm)	(mm)	(mm)		
1000	13	3.00	150 - 300	900 x 2100	1600 x 1400 x 2400	2200 x 2200	2600 x 4500		
		3.50							
		4.00				2200 x 2350	2700 x 4600		
		5.00							
		6.00							
1250	16	3.00		1100 x 2100	1950 x 1400 x 2400	2500 x 2200	2700 x 4500		
		3.50							
		4.00				2550 x 2350	3100 x 5000		
		5.00							
		6.00							
1350	18	3.00			1950 x 1500 x 2400	2500 x 2300	2750 x 4650		
		3.50							
		4.00				2600 x 2450	3100 x 5000		
		5.00							
		6.00							
1600	21	3.00				1950 x 1750 x 2400	2500 x 2550	2750 x 4900	
		3.50							
		4.00					2600 x 2700	3100 x 5250	
		5.00							
		6.00							
1800	24	3.00					1950 x 1900 x 2400	2500 x 2700	2750 x 5050
		3.50							
		4.00						2600 x 2850	3100 x 5350
		5.00							
		6.00							
2000	26	3.00	2000 x 2000 x 2400					2500 x 2850	2800 x 5200
		3.50							
		4.00							

Rated Speed	Overhead	Pit
(m/s)	(mm)	(mm)
3.00	5300	3100
3.50	5300	3100
4.00	5500	3300
5.00	5600	4000
6.00	5850	4300

Note:

- Shaft Wall Tolerance:
 Shaft Height <= 30m: 0~+25mm
 Shaft Height <= 60m: 0~+35mm
 Shaft Height <= 90m: 0~+50mm
 Shaft Height <= 1250m: 0~+80mm
 Shaft Height > 125m: 0~+100mm
- Dividing Beams by Others
- Opening Symbols

Rated Load	Pas-sengers	Rated Speed	Max Travel	Central Doors WxH	Car Size WxDxH	Shaft Size WxD		Machine Room WxD	
						1 Unit	2 Units	1 Unit	2 Units
(kg)	Nbr	(m/s)	(m)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
630	8	0.50	25-100	800 x 2100	1400 x 1100	2000 x 1850	4200 x 1850	2450 x 4100	4500 x 4100
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
800	10	0.50		800 x 2100	1400 x 1350	2000 x 2100	4200 x 2100	2450 x 4300	4500 x 4300
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
1000	13	0.50		900 x 2100	1600 x 1400	2000 x 2150	4600 x 2150	2700 x 4500	5100 x 4500
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
1150	15	0.50		1100 x 2100	1800 x 1400	2400 x 2150	5000 x 2150	2900 x 4500	5500 x 4500
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
1250	16	0.50		1100 x 2100	1950 x 1400	2400 x 2150	5000 x 2150	3000 x 4500	5600 x 4500
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
1350	18	0.50		1100 x 2100	1950 x 1500	2400 x 2250	5000 x 2250	3000 x 4600	5600 x 4600
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
1600	21	0.50		1100 x 2100	1950 x 1750	2400 x 2500	5000 x 2500	3000 x 4850	5600 x 4850
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							
1800	24	0.50		1100 x 2100	1950 x 1900	2400 x 2700	5000 x 2700	3000 x 5000	5600 x 5000
		1.00							
		1.60							
		1.75							
		2.00							
		2.50							

Rated speed	Overhead (mm)			Pit (mm)	
	630-1150 kg	1250-1600 kg	1800 kg	630-1600 kg	1800 kg
0.50	4250	4250	4250	1600	1750
1.00	4250	4250	4250	1600	1750
1.60	4350	4350	4350	1600	1800
1.75	4350	4450	4550	1850	2000
2.00	4600	4650	4650	1850	2000
2.50	4850	4850	4850	2250	2250

Note:

1. Opening for firemen's switch on main floor only
2. Dividing Beams by Others
Beam 120a for 630 to 1350kg
Beam 128a for 1600 to 1800kg
3. Refer to GAD for support beams information
4. Opening Symbols

TE-HP Function List

S Standard
O Optional
NA Not Available

No.	Function	HP61	HP61	HP51
		<3m/s	3-6m/s	-
1	Door Close Button	S	S	S
2	Door Open Button	S	S	S
3	Alarm Button	S	S	S
4	Overload Control Function with Visual and Audible Function	S	S	S
5	Automatic Operation for Car light and Fan	S	S	S
6	Reset Car Call by Double Pressing Button	S	S	S
7	Emergency Car Lighting	S	S	S
8	Automatic Doors	S	S	S
9	Door Reopen By Landing Call	S	S	S
10	Repeat Door Closing in the Event of Lock Failure	S	S	S
11	Special Waiting Time with Open Door at the Main Floor (Adjustable)	S	S	S
12	Regulated Door Drives (Regulated Speed and Torque)	S	S	S
13	Safety Light Curtain with Multiple Light Beams	S	S	S
14	Closing Force Limited for Door Operation	S	S	S
15	Dot Matrix (Red) Floor Indicator and Direction Arrow on all Floors	S	S	S
16	Dot Matrix (Red) COP Display	NA	NA	S
17	7.6" Blue Write Segment LCD COP Display	S	S	NA
18	One to one 5-Way Intercom car to Master-Station	S	S	S
19	Fire Emergency Return (FER)	S	S	S
20	Home Landing	S	S	S
21	Full Load By-Pass	S	S	S
22	Car Priority	S	S	S
23	Car Parking and Switch off by Key Switch	S	S	S
24	Collective Fault Signal	S	S	S
25	Phase Failure and Phase Reversal Protection	S	S	S
26	Landing to the Nearest floor in case of Problem (except Power failure and safety Circuit Problems)	S	S	S
27	Immediate Call allocation for Groups/Duplex	S	S	S
28	Continued Group/Duplex Operation in case of Failure of One Elevator (When in Group)	S	S	S
29	Anti-Nuisance "Max. of Passengers"	S	S	S
30	Anti-Nuisance "Empty Car"	S	S	S
31	Anti-Nuisance "Car Call Cancellation at last Landing"	S	S	S
32	Anti-Nuisance function "Internal Call deletion Opposite to Travel Direction"	S	S	S
33	Lockable Main Switch Integrated for Controller Cabinet	S	S	S
34	Controller Prepared for Tele-Service (Excluding MH2 Board)	S	S	S
35	Trip and Hour Counter	S	S	S
36	Inspection Mode in Machine Room	S	S	S
37	Inspection Mode in Car Top (High Priority)	S	S	S
38	Traction Machine over Temperature Supervision	S	S	S
39	Traction Machine Skidding Protection	S	S	S
40	Elevator Start-Up Loading Weighting Compensation Function	S	S	S
41	Onward Travel to the next Stop in the Case of a non-opening Door	S	S	S
42	Open-Door Re-leveling Function (TH>45m)	NA	NA	NA
43	Open-Door Re-leveling Function (Load<=1150kg, TH>60m, >1150kg, TH>30m)	NA	NA	NA
44	Open-Door Re-leveling Function	S	S	S
45	Automatic Call Allocation to the Elevator with the Lowest Load	S	S	S
46	Compact & Flat, Diamond Flat Push Button on all Floors	S	S	S
47	Open Brake using UPS Power Supply	NA	NA	NA
48	Recover Speed Governor Artificially	NA	NA	NA
49	Supervision for Trap Door	O	O	O
50	Arrival Gong on Car	S	S	S

TE-HP Function List

S Standard
O Optional
NA Not Available

No.	Function	HP61	HP61	HP51
		<3m/s	3-6m/s	-
51	Video/Camera Cable from Machine Room to Car (Including in Traveling Cable)	O	S	O
52	Advanced Door Opening	S	S	S
53	Open-Door Re-leveling Function (TH<=45m)	NA	NA	NA
54	Open-Door Re-leveling Function (Load<=1150kg, TH<=60m, >1150kg, TH<=30m)	NA	NA	NA
55	Terminal Deceleration Monitoring (Only for MC1 Control)	NA	S	NA
56	Voice Announcement System (Local, Mandarin, Cantonese or English)	O	O	O
57	Arrival Gong on every Floor	O	O	O
58	Out of Service Indication (Only for Additional box LOP)	O	O	O
59	Firemen's Emergency Operation	O	O	O
60	Signal to Supervision Room for Fire Emergency Return	S	S	S
61	Car Attendance only for 1 st COP	O	O	O
62	Changing Main Stop	O	O	O
63	Special Trip (Landing Priority) by Key Switch	O	O	O
64	Blocking of Landings (Switch/Timer)	O	O	O
65	IC Card Operated Car Calls (Instead of Push Button)	O	O	O
66	Group Control (Max 8 Units)	O	O	O
67	Duplex Control	NA	NA	NA
68	Taking Units out of Group (Timer/Switch)	O	O	O
69	ARD (Automatic Rescue Device) Function	O	O	O
70	Peak Service Function (Only for Group Control)	O	O	O
71	BAS Interface Function (Dry Contractor Signal)	O	O	O
72	BAS Interface for RS485 (MMC Board)	O	O	O
73	BAS Interface for RS232 (MM Board)	O	O	O
74	Earthquake Emergency Return	O	O	O
75	Additional coast for Light Curtain + Safety Edge (Only K8 Door System)	O	O	O
76	Fire-Rated Door	O	O	O
77	Through Door	NA	NA	NA
78	Selective Door (Only in through Car Case)	NA	NA	NA
79	Color Video Camera (In Car)	O	O	O
80	Air Conditioning on the Door	O	O	O
81	Hall Lantern	O	O	O
82	LIOP from Compact to Separated	O	O	O
83	Red Dot Matrix for Car Display	O	O	O
84	4.3" Blue and White Screen LIOP Display	O	O	O
85	5.7" Blue and White Screen COP Display	NA	NA	NA
86	TFT LCD Car Displays	O	O	O
87	Second COP (Excluding Car Attendant and Intercom)	O	O	O
88	Handicapped COP (No Indicator, Braille Push Buttons as Standard)	O	O	O
89	Supervision Panel (Local, Cable by Other, Cable Length<=150m)	O	O	O
90	Teleservice Interface (Including MH2 Board, Without Modem)	O	O	O
91	Monitoring System	O	O	O
92	Generator Powered Emergency Evacuation Control and Interface (Generator by Others)	O	O	O
93	Regenerative Inverter	O	O	O
94	Compulsory Landing	O	O	O
95	Door Nudging (S8 Series Doors Only)	O	O	O
96	Call for preferred Elevator of a Group (3 rd Call Button)	O	O	O
97	3D Light Curtain Door Protection	O	O	O
98	Fire Detector Operation	O	O	O
99	DSC	O	O	O
100	One to Multi 5 way Intercom System	O	O	O
101	Help Button	NA	NA	NA