

MAROHN TKE

MAROHN TKE

Your smart choice for future life.

Together with our customers we are transforming cities into the best places to live.

Creates products and service solutions that satisfy the highest customer demands in this rapidly urbanizing landscape.

TK Elevator - One of the world's leading elevator companies - holds the majority stake in Marohn TK Elevator.

TK Elevator installs, maintains and modernizes elevators and escalators worldwide. With clear solutions for increasingly complex infrastructures.





1847

after Alfred Krupp (son of Friedrich otained the pater



1859

The gun barrel ingot order from the Prussian military major production segment. Shortly afterwards Krupp started production of complete artil-



1871

August Thyssen es tablished the firm of Thyssen & Co., then set up the first



August Thyssen Alfred Krupp chose three superposed railway tires as Krupp trade-mark.the firm of Thyssen & Co., then set up the first joint

1875



1886

Krupp supplied 1,500t. of rail steel for the constructio



1896

many with the first Chinese delegation, which opened the prologue for the Sino-German trade.



1937

The Bank of China



of tons of Krupp steel to produce safe and vault doo making it the Far East No. 1 bank at



1975

of New China, Thys sen and Krupp con



1976

hyssen AG throug nerger, and estab-shed four busines groups Capital Goods and Manu-factured Products Trading and Ser-vices, Stainless teel, and Steel. hyssen incorpora d the arch of Rhe istahl into the





was a blend of old



2002

Gerhard Schröder met with Premier Zhu Rongji, and took the Shanghai



rupp Elevator is a specialized elevator manufacturer held met with the mem bers of Sino-Ger-man Economic Exchange Advisory
Committee in Dusseldorf, Germany,
including the CEO



2014 2015

> desing standard of industry 4.0, a new intelligent factory of Marohn Thyssen



2021

MEP

Mini Machineroom Elevator



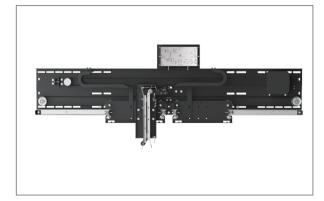
1 Traction machine

Marohn TK Elevator gearless permanent magnet synchronous traction machine can perform safely and reliably for adopting high performance magnetic steel and equipped with overheating protection. Unique rotating shaft outer rotor structure can effectively reduce the noise, making smooth and quiet operation come true.



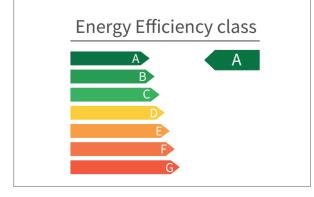
2 Control System

Marohn TK Elevator integrated control cabinet combines automatic control technology, AC variable frequency variable voltage vector control speed regulation and multiple other technologies. Classic CANBUS serial communication can perform high speed data transmission over long distance. Advanced breakdown self-inspection function makes it easy for the maintenance.



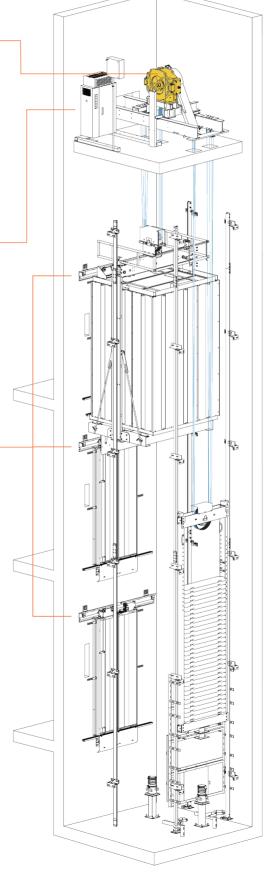
3 Door system

Marohn TK Elevator permanent magnet synchronous door system has compact structure, which can be installed through a variety of ways to adapt to different shaft layout. It has stable control over the door, so as to ensure that every time the opening and closing of the door can achieve the best speed curve and moment of force, and safe entrance and exit of all the passengers.



4 Eco-efficiency

An elevator can account for 2-10% of a building's total energy consumption. We believe that every kWh can be saved. Marohn TK Elevator MEP elevator has obtained VDI 4707 A-class elevator energy efficiency certification, and we also keep eco-efficiency as the standard of our products.



Designed specifically for low-rise residence and office, MEP provides passengers a larger sized car and more spacious and comfortable ride experience in the same shaft area. MEP can improve the traffic efficiency of office building during peak hours, and accommodate the hand-push baby strollers, travel tools in the residential building with reasonable shaft layout and part combination. The deep car is also easier for wheelchair and stretcher to get in and out, dealing with challenges of the increased aging society.







Application

Low to mid rise residential

Commercial

Hotel

Specifications

Load 630kg to 2000 kg Capacity 8 to 26 persons Max. travel 120 m

Max. floors served 40
Max. speed 2.5m/s

Entrances 1 front / 2 open through

Cabin Customized design.



Standard Powder coating series

Ceiling LED light CL08

Side wall

Rear wall Powder coating C032_RAL5014 Powder coating C032_RAL5014

Floor

Powder coating options









C031_RAL5012 C041_RAL6024 Bright blue Tender green

*CL08 Ceiling is not available for trap door and panoramic lift

Cabin Customized design.



MD1316

Ceiling CL22 SS443/SS304 Front panel Side panel SS443/SS304 SS443/SS304 Marble FL307

Etched & other steel finish options



Silvery mirror





Golden hairline GY50 Silvery





GY68 Bronze hairline etching mirror etching

Stainless steel series

Ceiling LED light CL08 Front panel

SS304 Side panel SS443/SS304 Rear panel SS443/SS304

Etched & other steel finish options



Silvery mirror

















GY68 Bronze hairline etching mirror etching



MD1317

Floor

CL23 Ceiling SS443/SS304 Front panel SS443/SS304 + mirror SS304 + SS443/SS304 Side panel SS443/SS304 + mirror SS304 + SS443/SS304 Rear panel

Marble FL308

^{*}Etched stainless steel options apply to side and rear panel only

^{*}Etched stainless steel options apply to side and rear panel only

Panoramic series.

Cabin design.



MD1316 with rear glass

Ceiling CL22

Front panel Hairline SS304

Side panel Hairline SS304

Rear panel Glass with SS304 frame

Handrail HR11

Floor Marble FL308

Color Options for stainless steel









Golden hairline Bronze hairl SS304 SS304



MD1318

Ceiling CL2

Front panel Champagne gold sandblasting

stainless steel

Side panel Champagne gold sandblasting

stainless steel

Rear panel Champagne gold sandblasting

stainless steel

Floor Marble FL309



MD1316 with 3 sides glass

Ceiling CL22

Front panel Hairline SS304

Side panel Glass with SS304 frame

Rear panel Glass with SS304 frame

Handrail HF

Floor Marble FL308

Color Options for stainless steel









rline Bronze hairline SS304



MD1319

Ceiling CL23

Front panel Bronze hairline stainless steel
Side panel Bronze hairline stainless steel

Rear panel Bronze hairline stainless steel + Bronze mirror

stainless steel + Bronze hairline stainless steel

Floor Marble

Cabin design.



Cabin design.



MD1324

Ceiling	Bronze sandblasting stainless steel, transparent
	acrylic goes with LED panel lighting, CL29
Front panel	Bronze sandblasting stainless steel
Side panel	Bronze sandblasting stainless steel
Rear panel	Bronze sandblasting stainless steel + Bronze
	mirror etched stainless steel + Bronze
	sandblasting stainless steel
Handrail	Bronze sandblasting stainless steel
Floor	Marble FL315
Car door	Bronze sandblasting stainless steel



MD1321

MD1320

Upper & lower rose gold hairline stainless steel, LED spotlights goes with warm light, hidden strip

Mirror stainless steel in the middle, mirror steel trim; Classic beige aluminum honeycomb on

Mlassic beige aluminum honeycomb in the

Black titanium hairline stainless steel

Rose gold etched hairline stainless steel

middle, mirror steel trim; Rose gold hairline stainless steel and mirror stainless steel on both

lighting, CL25

both sides

sides, mirror steel trim

Marble FL311

Rose gold hairline stainless steel

Ceiling

Front panel

Rear panel

Handrail

Car door

Floor

Ceiling	Rose gold sandblasting stainless steel, acrylic lamp piece goes with panel lighting, CL26
Front panel	Rose gold hairline stainless steel
Side panel	Rose gold mirror stainless steel + Rose gold sandblasting stainless steel + Rose gold mirror stainless steel
Rear panel	Rose gold mirror stainless steel + Rose gold sandblasting stainless steel + Rose gold mirror stainless steel
Skirt	Rose gold sandblasting stainless steel
Floor	Marble FL312
Car door	Rose gold hairline stainless steel



MD1344

Ceiling	Titanium gold mirror stainless steel, titanium
	mirror etched stainless steel, Decorative lights, LED
	downlights
Front panel	Titanium Gold Mirror stainless steel
Side panel	Titanium Gold Mirror stainless steel+Beige beehive marble
Rear panel	Beige beehive marble + Solid wood wire frame colored glass mirror + Beige beehive marble
Handrail	Titanium mirror stainless steel tube, Solid log
Floor	Parquet Marble
Car door	Titanium gold mirror stainless steel

10 Mini Machineroom Elevator MEP 11

Cabin design.

Doors Options.



Panoramic door

Panel Clear Glass with SS304 frame

Frame options











MD1347

MD1345

Ceiling

Front panel Side panel

Rear panel

Handrail

Skirting

Car door

Floor

Ceiling Bronze sandblasting stainless steel, LED

down light, LED light strip

Front panel Bronze sandblasting stainless steel

Side panel Bronze sandblasting stainless steel + Wood veneer + Bronze sandblasting stainless

Titanium Black sandblasting stainless steel, Acrylic light strip, Matte white powdered steel plate, LED

Titanium Black sandblasting stainless steel + Stainless

Black mirror stainless steel with Hairline stainless steel trim strip + Titanium Black sandblasting stainless steel

steel woven mesh with Hairline stainless steel trim strip + Titanium Black sandblasting stainless steel Titanium Black sandblasting stainless steel + Titanium

Titanium Black sandblasting stainless steel

down light, LED soft rope Light

Flat hairline stainless steel

Marble inlaid stainless steel trim

Titanium Black sandblasting stainless steel Titanium Black sandblasting stainless steel

steel

Rear panel Bronze mirror stainless steel, Bronze sandblasting stainless steel, LED soft rope

Handrail Bronze mirror stainless steel tube

Floor

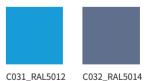
Car door Bronze sandblasting stainless steel



Standard Door

Panel Powder coating C000_RAL7047

Powder coating options











Stainless steel options









Bronze hairline

Mini Machineroom Elevator MEP | 13

Ceiling Options.



CL03

Standard Slivery Mirror stainless steel
Option Slivery Hairline stainless steel



CL06B

Standard Powder coating Steel:C000_RAL7047



CL10

Standard Slivery Mirror stainless steel
Option Slivery Hairline stainless steel



CL13

Standard Slivery Mirror stainless steel
Option Gold Mirror stainless steel



CL18

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL22

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel

Ceiling Options.



CL23

Standard Hairline stainless steel
Option Mirror stainless steel



CL24

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel
champagne gold sandblasting st. st



CL46

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL47

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL48

Standard Slivery Hairline stainless steel
Option Slivery Mirror stainless steel



CL49

Standard Powder coating Steel:C000_RAL7047

Option Slivery Hairline stainless steel

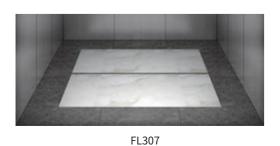
*Trap door is not available for ceiling CL06B, CL10, CL18 and CL24 Car depth should be \geqslant 1400mm for trap door

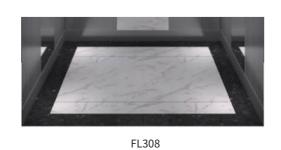
Flooring options.

PVC flooring



Marble flooring





Standard COP & LIOP.



COP10

Indicator 5.7" black/white LCD Hairline stainless steel Faceplate Button Round& Braille Stainless

White

Button standard: Round type















HBP300

Faceplate

Indicator 4.3" black/white LCD

Hairline stainless steel

Round& Braille Button

light White

Surface mounted Structure



HBP300

Mini Machineroom Elevator MEP | 17

Premium COP options.

MACON TICE **MIN * 11 **NO MACON TICE **MIN * 21 **MIN

COP10 8" TFT photo COP10 10.4" TFT Multimedia

COP510 *Full height type avl. at front panel

Indicator 8" TFT photo/ 10.4"TFT multimedia

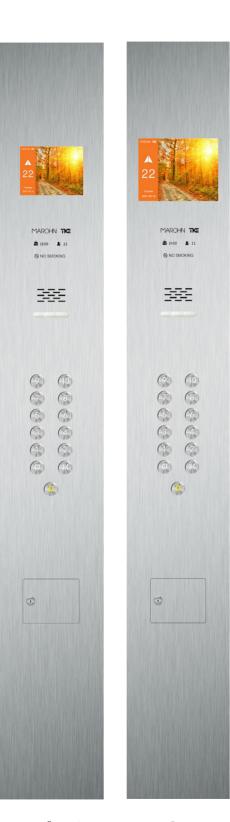
Faceplate Hairline stainless steel

Button Round & Braille Stainless

light White

Button option: Sqaure type





COP510 8" TFT photo COP510 10.4" TFT Multimedia

Premium LIOP options.

Simplex Display Option







HBP100BS Flushed mounted



HBP20 Surface mounted





HBP110+HD110 Flushed mounted

Duplex Display Option



HBP100AD Flushed mounted



HBP100BD Flushed mounted



HBP210 Surface mounted

Mini Machineroom Elevator MEP | 19

Hall Lantern.

Hall lantern





HL110 Flushed mounted

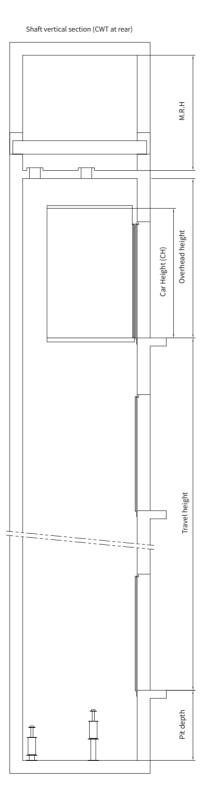


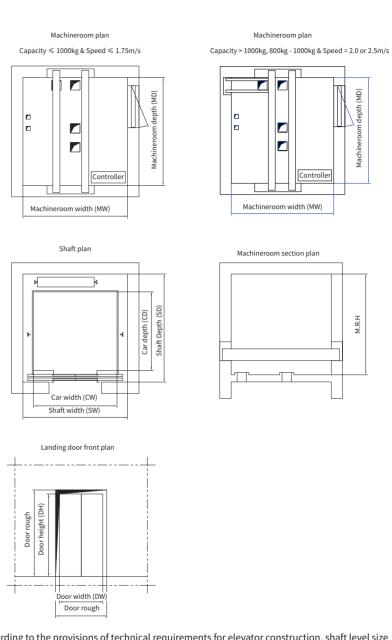
HL120 Flushed mounted

Handrail



Layout. (CWT at rear)





According to the provisions of technical requirements for elevator construction, shaft level size adopts the minimum clearance size measured by plumb, with the allowed deviation value:

Shaft height	SH ≤ 30r	n 30m <sh 60m<="" th="" ≤=""><th>SH>60m</th></sh>	SH>60m
The allowed deviation	0~+25mn	n 0~+35mm	0~+50mm

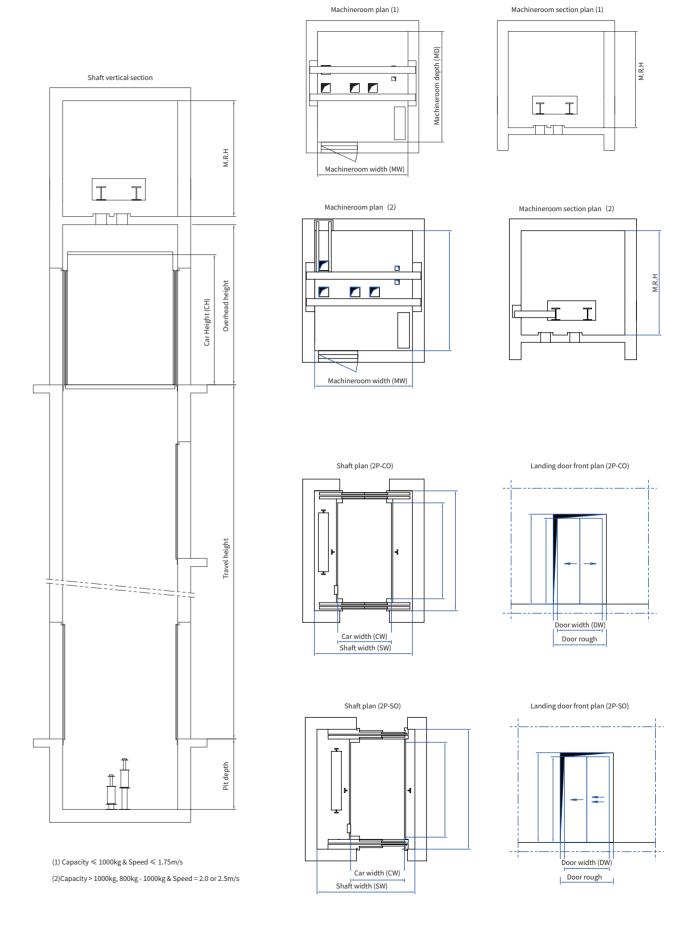
Layout. (CWT at side)

(1) Capacity \leq 1000kg & Speed \leq 1.75m/s

(2)Capacity > 1000kg, 800kg - 1000kg & Speed = 2.0 or 2.5m/s

Shaft vertical section Machineroom plan (1) Machineroom section plan (1) Shaft plan (2P-CO) Landing door front plan (2P-CO) :T=::=::=::= Door width (DW) Door rough Car width (CW) Landing door front plan (2P-SO) Door rough

Layout. (180° open through door)



Technical Specification.

*NOTE: 1> The date is based on CL06B,CL08,CL49 ceiling & PVC floor; 2> The overhead must add 50mm when option other Ceiling.

Load/ca	apatity		Car (mm)		Do	or (mm)		Lift sha	ft (mm)		Rem	arks
Persons	DL(kg)	CW Width	CD Depth	Car internal height	OP Width	OP Height	TYPE	HW Width	HD Depth	No. of entrances	Non- fire rate door	Fire rate door
Counterweig	ht at rear sha	aft location										
8	630	1400	1100		800			1850	1700		Х	Х
10	800	1400	1350		800			1850	1950		Х	Х
12	900	1600	1350		900			2050	1950		Х	Х
13	1000	1600	1400		900			2050	2000		Х	Х
15	1150	1700	1500	2200	1000	2100	2P-CO	2200	2100	1	Х	Х
18	1350	2000	1500		1100			2500	2100		Х	Х
21	1600	2000	1700		1100			2500	2300		Х	Х
24	1800	2100	1800		1100			2600	2400		Х	Х
26	2000	2200	1850		1100			2700	2450		Х	х
Counterweig	ht at side sha	aft location										
8	630	1100	1400		800			1800	1750		Х	Х
10	800	1300	1500		800			2000	1850		X	X
12	900	1350	1600		900			2050	1950		X	X
13	1000	1400	1600		900			2100	1950		Х	х
15	1150	1500	1700	2200	1000	2100	2P-CO	2250	2050	1	X	X
				2200		2100	21 -00			-		
18	1350	1700	1800		1100			2450	2150		X	X
21 24	1600 1800	1700 1800	2000		1100			2450	2350		X	X
26	2000	1850	2100 2200		1100 1100			2550 2600	2450 2550		X	X
Counterweig					1100			2000	2550		Х	Х
J												
13	1000	1100	2100		900			2000	2450		Х	Х
15	1150	1250	2100		1000			2200	2450		Х	Х
18	1350	1250	2400	2200	1000	2100	2P-CO	2200	2750		Х	Х
21	1600	1400	2400		1100			2400	2750		Х	Х
24	1800	1500	2500		1100			2450	2850		Х	Х
26 13	2000 1000	1600 1100	2600 2100		1100 900			2500	2950	1	X	X
15								1800	2500		X	X
18	1150 1350	1250 1250	2100 2400	2200	1000 1000	2100	2P-SO	2000 2050	2500 2800		X	X
21	1600	1400	2400	2200	1100	2100	2F-3U	2050	2800		X X	X X
24	1800	1500	2500		1100/1200			2300	2900		X	X
26	2000	1600	2600		1100/1200			2400	3000		X	X
Counterweig					1100/1200			2400	3000		^	^
J					000			1000	1000			
8 10	630 800	1100 1300	1400 1500		800			1800	1900 2000		X	X
10	900	1300	1600		800 900			2000 2050	2100		X	X
13	1000	1400	1600		900			2100	2100		X	X
15	1150	1500	1700	2200	1000	2100	2P-CO	2250	2200	2×180°	X X	X
18	1350	1600	1900	2200	1000	2100	ZF-CU	2350	2400	2 ^ 100		X X
21	1600	1700	2000		1100			2450	2500		X X	X
24	1800	1800	2100		1100			2550	2600		X	X
26	2000	1850	2200		1100			2600	2700		X	X
20	2000	1020	2200		1100			2000	2100		X	Α

Min. Pit Depth					
Rated speed (m/s)	1	1.5	1.75	2	2.5
EN81-1 & EN81-20/50	1200	1300	1350	1400	1550

Min. Overhead													
Rated load (kg)	≤ 1000	≤ 1000	≤ 1000	≤ 1000	≤ 1000	1150-1600	1150-1600	1150-1600	1150-1600	1150-1600	1800-2000	1800-2000	1800-2000
Rated speed (m/s)	1	1.5	1.75	2	2.5	1	1.5	1.75	2	2.5	1	1.5	1.75
EN81-1	3800	3950	4000	4250	4500	3900	4050	4100	4250	4500	3950	4100	4150
EN81-20/50	4000	4150	4200	4450	4700	4100	4250	4300	4450	4700	4150	4300	4350

Function list.

√ Standard fuction○ Optional fuction

*More Functions please review "Standard Equipment Binder"

		*More Functions please revi
	$\sqrt{}$	Full Collection Control
	$\sqrt{}$	Main landing return
	$\sqrt{}$	Full load non-stop
	$\sqrt{}$	Onward travel to the next stop in the case of non-opening door
Optimized functions	$\sqrt{}$	Separate Setting Landing Door and Car Door response instruction time
Tarretions	$\sqrt{}$	Adjustable speed and torque of door operator
	$\sqrt{}$	Energy saving operation for car light and fan
	$\sqrt{}$	Re-leveling Operation(±50mm)
	$\sqrt{}$	Changing main landing
	$\sqrt{}$	Overload protect
	$\sqrt{}$	Phase failure and phase reversal protection
	$\sqrt{}$	Machine overheat protection and Variable-frequency Drive
elf-potective function	$\sqrt{}$	Elevator drive overcurrent protection and overvoltage
Turiction	$\sqrt{}$	Retrograde protection
	$\sqrt{}$	Prevent slipping protection
	$\sqrt{}$	GFCI Protection for shaft & cab light
	$\sqrt{}$	Landing to the nearest floor in case of nonsecurity problem
	0	Fire emergency return
mergency	$\sqrt{}$	Emergency car lighting
peration	$\sqrt{}$	Alternate Fire Evacuation
	0	Automatic rescue device
	$\sqrt{}$	Repeat door closing in the event of lock failure
	$\sqrt{}$	Safety curtain for door
mfortable	$\sqrt{}$	Inspection running
riding	0	Air-condition
	$\sqrt{}$	Braille button
	$\sqrt{}$	Car call cancellation (double click)
	$\sqrt{}$	Door open & close button
	0	Door Hold button
Human machine	0	Car arrival charm
nterface	0	Handicapped COP
	0	Hall Lantern
Intelligent learning	√	Shaft auto-tuning
	√	Power failure recovery automatic correction
Mornitoring	√	5 ways intercom
	0	BA interface (4 dry contacts)
	0	Video Cable
	0	Voice announcement
	0	Access card system

MAROHN **TK**E Moving Towards Future

TK Elevator Singapore Pte. Ltd.

3 International Business Park, #06-31 Nordic European Centre, Singapore 609927 P +65 68901640

TK Elevator (Cambodia) Co., Ltd.

Level 1, No. 56, St. 337, Sangkat Boeng Kak II, Khan Toul Kork, Phnom Penh, Cambodia P +855 23 900 448

PT. TKE Elevator Indonesia - Jakarta (Head Office)

Trihamas Building 2nd Floor, JI. TB Simatupang Kav. 11, Tanjung Barat, RT.7/RW.5, Tanjung Barat, Jagakarsa, Jakarta Selatan, DKI Jakarta 12530, Indonesia P (+62)21 2951 6466

PT. TKE Elevator Indonesia -Surabaya Branch, Java

Komplek Ruko Rungkut Mega Raya, Blok N No.47, Jalan Kedung Baruk, Kali Rungkut, Rungkut, Kota Surabaya, Jawa Timur 60298, Indonesia P (+62)31 8785 4324

TKE Elevator Myanmar Limited No33/49, Strand Condo, Unit 05, 7th Floor, Mahabandoola Garden Street, Kyauktada Township, Yangon, Myanmar (Burma) P (+95) 1 8252364

TK Elevator Taiwan Co., Ltd. -Taipei(Head Office)

36th Floor, No. 16, Xinzhan Road, Bangiao District, New Taipei City, Taiwan 220 P (+886) 2 2561 8310

TK Elevator Taiwan Co., Ltd. -Taichung

20F-2, No.698, Section 4, Wenxin Road, Beitun District, Taichung City, Taiwan 406 P (+886) 4-2238-1119

TK Elevator Taiwan Co., Ltd. -Kaohsiung

32F-4, No.38, XinGuang Road, Lingya District, Kaohsiung City, Taiwan 802 (+886) 7 269 2707

TK Elevator Malaysia Sdn. Bhd. -Selangor(Head Office)

Level 18, The Pinnacle, Persiaran Lagoon, Bandar Sunway, 46150 Petaling Jaya, Selangor Darul Ehsan, Malaysia P +603 5622 9988

TK Elevator Malaysia Sdn. Bhd. -Penang

No. 15, Ground Floor, Lebuh Sungai Pinang 5, 11600 Georgetown, Pulau Pinang, Malaysia P +604 281 5839 / 282 5840

TK Elevator Malaysia Sdn. Bhd. -Johor Bahru

No. 25, Jalan Molek 3/10, Taman Molek, 81100 Johor Bahru, Johor Darul Takzim, Malaysia

TK Elevator Malaysia Sdn. Bhd. -Kota Kinabalu

Lot No. KC/F/40/G(F-G-8), Ground Floor, Building No. F, Karamunsing Capital, 88200 Kota Kinabalu, Sabah, Malavsia P +6088 316 168

TK Elevator Malaysia Sdn. Bhd. -Kota Bharu

Lot 10899, 1st Floor, Wisma Seri Setia, Section 26, Jalan Dusun Muda, 15200 Kota Bharu, Kelantan Darul Naim, Malaysia P +609 741 4260

TK Elevator Vietnam Co., Ltd. -**Head Office** No. 198 Truong Chinh, Khuong Thuong Ward, Dong Da District, Hanoi, Vietnam P +84-24-3 728 2116

TK Elevator Vietnam Co., Ltd. - Ho Chi Minh City Branch

2nd FL, N' orch Building, 170 -170Bis-172E Bui Thi Xuan Str., Pham Ngu Lao Ward, District 1, Ho Chi Minh City, Vietnam. P +84-28-3 9143 339

TK Elevator Vietnam Co., Ltd. – Da Nang Representative Office

55 Thanh Thuy, Hai Chau District, Da Nang City, Vietnam. P +84-236 958 343

TK Elevator (Thailand) Co., Ltd -**Head Office** 65/52 Chamnan Phenjati Business Center, 4th Floor, Rama 9 Road, Huaykhwang, Huaykhwang District, Bangkok 10310, Thailand P +66 2232 1500

TK Elevator (Thailand) Co., Ltd -Eastern Seaboard Branch

245/76 M.9 Pattaya 3rd Road, Nong Prue Sub-district, Banglamung, Chonburi 20150, Thailand P +66 2232 1500

0 000 0



