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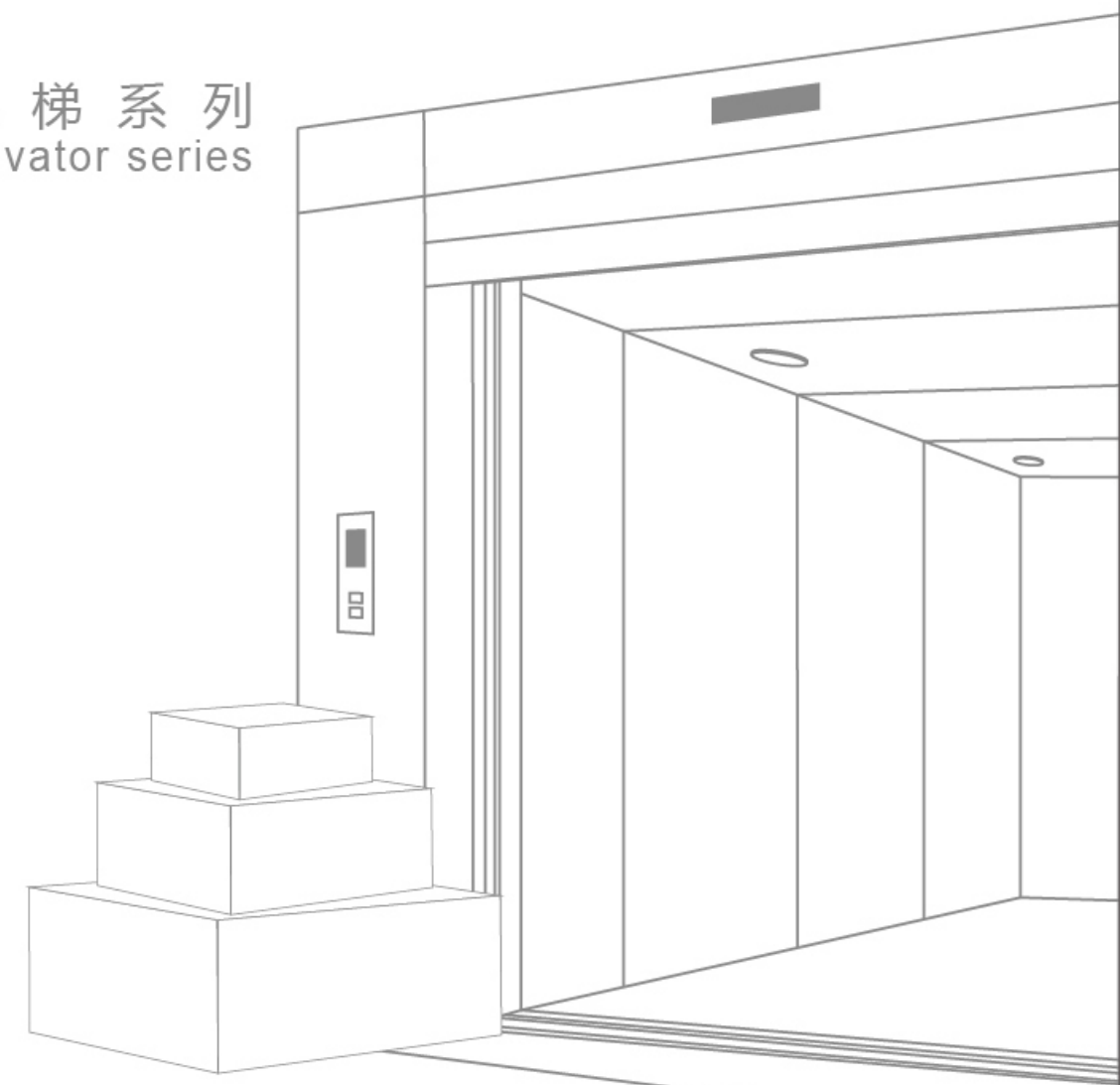


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LIAO ELEVATOR

 载货电梯系列
Freight elevator series



2018版

德国经典品质 上下舒享自如

Classical German quality
Free enjoyment of comfortable up / down motion



菱奥电梯，传承德国经典品质，打造全新运载理念。
大有可观的空间享受，无处不在的科技之美，融入至臻匠心品质，
让品牌诠释对空间的解读。

LIAO ELEVATOR inherits classical German quality to create a brand-new transport concept.
High & new tech attraction exists everywhere with broad and pleasant space enjoyment. It combines with original and superb
quality and craftsmanship. Famous brand deducts a wonderful space.





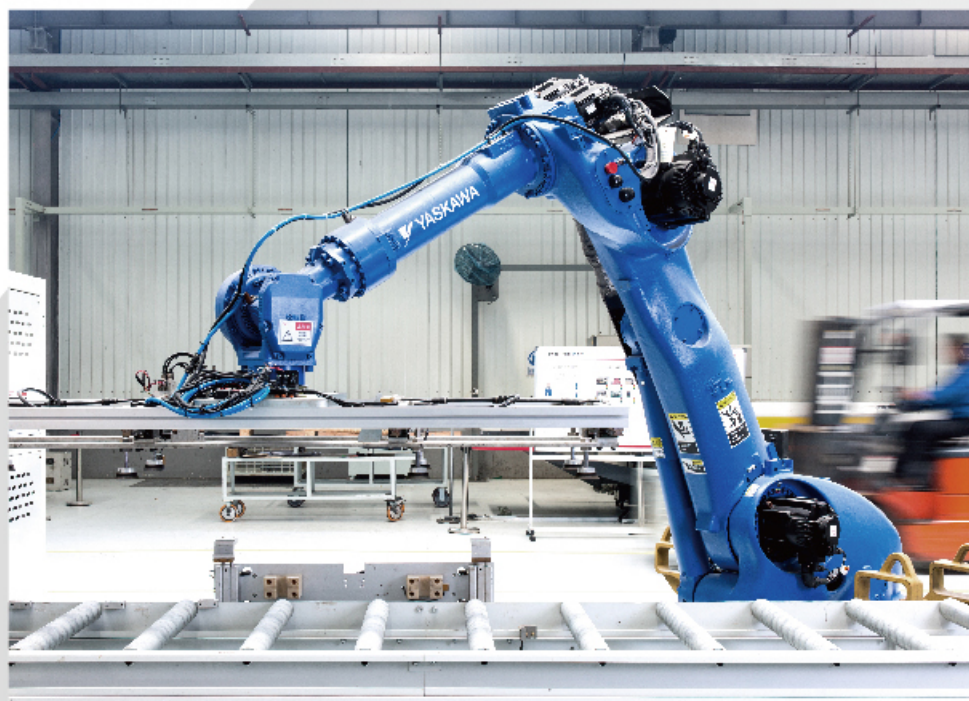
企业简介 Corporate profile

菱奥电梯有限公司是一家集研发、生产、销售及工程设计安装、售后服务于一体的专业电梯制造企业。公司可以满足顾客多样化需求产品，产品覆盖：小机房乘客电梯、无机房乘客电梯、观光电梯、病床电梯、别墅电梯、载货电梯及自动扶梯、自动人行道等系列产品，公司是一个集电梯研发、制造、销售、安装维修服务于一体的专业化电梯企业。完全可以近距离提供LIAO电梯全球统一标准的产品。

菱奥企业以不懈的技术创新，诠释质量与安全的内涵，本着求实创新的精神提供优质的产品，始终坚持“完善的服务网络，真诚的服务态度、快捷的服务流程”作为对客户永久的承诺。面向未来，我们信心满怀！LIAO品牌电梯也必将为您的建筑增光添彩！

LIAO Elevator Co., Ltd. is a production, sales and engineering design, installation and aftersales service in one of the professional elevator manufacturer. Company to meet the diverse needs of customers products, covering: Small machine room passenger elevator, Machine roomless passenger elevator, Panorama elevator, Hospital elevator, Villa elevator, Freight elevator and Escalator, Moving-walk and other products, the compang is a collection of R&D Elevator manufacturing, sales, installation and maintenance services in the integration of specialized elevator companies. Can provide LIAO elevator close global standard products.

LIAO enterprise relentless technological innovation, the interpretation of quality and safety, in line with spirit of innovation to provide quality products, and always adhere to the "perfect service network, sincere service attitude, fast service process" as a permanent customer commitment. Facing the future, we are full of confidence! LIAO brand elevator will also add luster to your building!



优良技术 高效节能

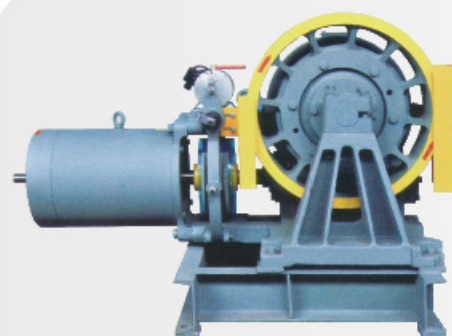
Superior technology
effective energy-saving

变频主机

菱奥电梯承载变频异步电引主机，安全节能、效率高、噪音低、振动小、运行平稳，润滑性能好，极大的满足了用户对电梯产品稳定、节能、运行平稳的高要求。

Frequency conversion mainframe

LIAO elevator bears variable frequency asynchronous traction host. It features as safe, energy-saving, effective, low noise, smooth operation, fine lubricating properties. It satisfies the users' high requirements for stable, energy-saving and smooth operation.



尖端的门机系统

VVVF变频门机：平稳开关，流畅运行
永磁同步直驱门机：可靠运行，高精度开门
位置控制系统：精确定位，安全平层

Top grade door machine system

VVVF variable frequency door machine: Smooth start / stop, operation
Permanent magnet synchronous direct-drive door machine: Reliable operation, high precision door-opening
Position control system: Precise positioning, safe leveling



光幕保护

在电梯入口处形成一道道光幕保护屏障，对于任何进入其探测范围内的物体都能做出灵敏反应，有效地保护人货安全。在轿门所在平面具有密集的红红外光幕，肉眼无法看见，使电梯入口更加美观。

Light curtain protection

It forms numerous light curtain protection barriers in front of elevator entry. It sensitively reacts to any object that enters into the probing range. It effectively protects safety to both passengers and goods. It can not be seen by human eyes. It brings about the more attractive elevator entry.



控制柜

苗条型控制柜，可安装于墙体内，为建筑设计带来更多的可能性，同时提升货物运输性能。侧置式结构，大大节省顶层空间，减少建筑成本。

control cabinet

Slim control cabinet can be installed in wall. It provides the building design with more and more possibilities. It increases the goods transport properties. Side placement structure saves a lot of top floor space. It reduces the building cost.



实用型通用变频器

高性能优化空间矢量变频算法，效率高、噪音和电磁干扰小。
双极性带修正功能的高性能PID，方便用于闭环控制。
跟踪起动功能，离心机、脱水机等负载可以随时起动。

Practical type general-purpose frequency changer

High performance optimized space vector variable voltage variable frequency calculation is of high efficiency, low noise, low electro-magnetic interference.
PID has double-polarity with correction function. It is convenient for closed loop control tracking start function.
It can start centrifugal machine, dewatering





载货电梯

Freight elevator

载物如人，安全到家

载货电梯，其应用的全电脑模块化电梯专用控制系统、高效可靠的驱动方式、轻柔灵敏的VVVF变频门机，使之在各种工况下轻松运载、应变自如。高强度的轿厢结构，防撞条以及光幕门的设置可满足各类载货用途并使用不同建筑结构，使得更多承载举重若轻、胜任有余。

A load, like a man, is safe to home

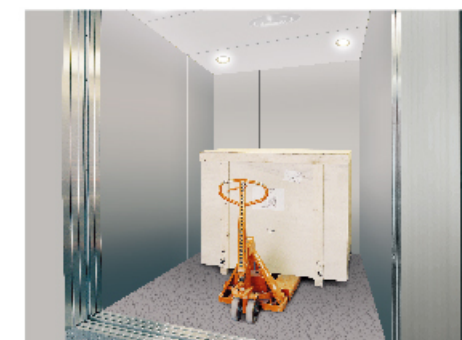
Carrying elevator, the full computer modular elevator special control system, efficient and reliable driving mode, flexible and sensitive VVVF variable frequency gate machine are used to make it easy to carry and strain under various working conditions. The high strength car structure, collision proof bar and light curtain door can satisfy various kinds of carrier use and use different buildings. The structure, Juchongruoqing, capable of carrying more.

坚固耐用的轿厢

高强度的板材折弯成型技术，确保轿厢坚固耐用，另可选配公司特别设计的防撞护栏，让轿厢得到多重保护。

The firm and durable car

High strength plate bending and forming technology ensures the firm and durable car. In addition, the company specially designs crash barrier to implement multi-protection to the car.



无机房载货电梯

Machine roomless
Freight elevator

大空间，更自在

菱奥无机房载货电梯是根据市场需求应运而生的。其紧凑的结构设计，可节约空间，符合各类建筑的美观度设计需求。无齿轮曳引机的运用，更起到了节能降耗的目的，迎合电梯未来发展趋势，是百货大厦、图书馆、仓库等场所首选的载货垂直运输工具。

More relaxing big spaces

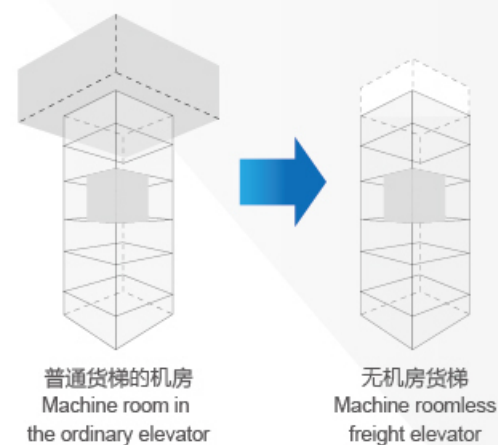
LIAO machine room-less freight elevator emerges upon the request of market demand. Its compact structural design can save space. It accords with attractive design requirements from various buildings. Application of gearless traction machine saves energy and reduces consumption. It coincides with future elevator development trend. It is your first-choice vertical goods transport tool in department store, library, warehouse etc.

多一点空间，多一点自由

只有拥有更多建筑自由度的电梯才有幸获得建筑大师的垂青。为改变传统有机房电梯对建筑物外观的影响，菱奥电梯开发出无机房货梯系列产品，不占用除井道之外的空间，结构紧凑。

More spaces, more freedom

Only the elevators with more building freedom can be favored by great architects. In order to change the affection of traditional elevator with machine room to building outline, LIAO elevator develops machine room-less freight elevator series. It does not occupy any other space except well. It is compact in structure.



汽车电梯

Car elevator

给您的爱车一个停靠的港湾

菱奥汽车电梯引进国际成熟的汽车升降技术，经过吸收、转化、提升，而开发生产的汽车升降梯，先进的技术避免了因轿厢受力不均匀导致曳引系统负载加重而产生噪音并引起轿厢晃动这一不利因素的存在，优化了这一系列产品的特性。

We provide your beloved car with a parking harbor

LIAO automobile elevator has been developed and manufactured through absorbing, converting and enhancing the well-developed international automobile elevation technology. Advanced technology ensures to eliminate noise, shaking car due to burdened traction system load because of uneven force to elevator car. It optimizes the characteristics of the product series.



双操纵箱
按钮

Dual operation
buttons box

轿厢内设有两只操纵箱按钮，司机无须走出汽车，就可以操纵电梯。

There are two operation box buttons in the car. There fore the driver can operate the elevator in the car without stepping out of it.



专门
显示系统

Special display
system

专门的电路控制及显示系统，既方便轿内司机，又方便轿外候梯的司机。

Special circuit control and display system are convenient for the drivers inside / outside the car.



安全
导向装置

Safe guide
device

轿内地面设有安全导向装置，保证了电梯及汽车的安全。

Safety guide device sets in the car ground to ensure fine security of both cars and elevators.



可以
前后开门

Front / rear door
opening are
available

电梯轿厢设有前后开门，更方便了汽车进出轿厢和安全。

The elevator car sets front / rear door opening which is more convenient for the safety sector and for the cars to enter into / exit from the elevator cars.



杂物电梯

Dumbwaiter elevator

演绎静音慎行的安全和稳重

菱奥杂物电梯为各种建筑中的小型货梯提供快捷、方便、经济的垂直运输，大大节省时间及人力资源。可广泛用于宾馆、饭店、银行、医院等场所供运送诸如饮食、餐具、日用品等物品之用。

It deducts safe,mute,steady,cautious travel

LIAO dumbwaiter provides small freight lifts in various buildings with prompt, convenient and economical vertical transport. It greatly saves time and labor resource. It is widely applicable for delivering drinks, food, dining ware, daily products etc. in hotel, restaurant, bank, hospital and so on.

丰富的规格型号

载重范围在50KG-500KG，门方式可分为货物直接进出的窗台式和方便载货小车进出的落地式。

Rich specifications and models

Load range:50kg-500kg.Door modes can be divided into windowsill type which is convenient for direct entry/exit of the goods and floor type which is easy for goods cart.



窗口型（上下直分）
Window type
(Up and down directly separated)



落地型（上下直分）
Ground type
(Up and down directly separated)

载货电梯轿厢装潢

Freight elevator car decoration



LA-F01

标 配	Standard
轿顶：喷涂钢板	Ceiling：Paint steel
通风：圆形风扇	Ventilation：Round fan
轿壁/轿门：塑喷钢板	Car wall/Car door：Paint steel
轿底：花纹钢板	Car bottom：Checked steel plate
地坎：铁制	Sill：Iron
操纵箱、外呼：LA-C010/LA-W010	COP:HOP：LA-C010/LA-W010



LA-F02

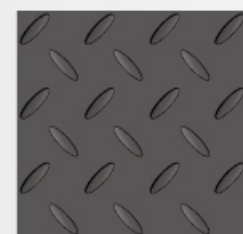
选 配	Optional
轿顶：发纹不锈钢	Ceiling：Hairline stainless steel
通风：圆形风扇	Ventilation：Round fan
轿壁/轿门：发纹不锈钢	Car wall/Car door：Hairline stainless steel
轿底：花纹钢板	Car bottom：Checked steel plate
地坎：铁制	Sill：Iron
操纵箱、外呼：LA-C010/LA-W010	COP:HOP：LA-C010/LA-W010

操纵箱系列

Operation panel series



地板
Floor



普通花纹钢板 I (标配)
Ordinary checkered steel plate I
(Standard)



不锈钢花纹板 II (选配)
Stainless steel diamond plate II
(Optional)

轿厢防撞条

Crash barrier of elevator



木质
Wooden



黑色橡胶
Black rubber

厅门系列

Landing door series



LA-T001
中分式
Center opening



LA-T002
旁开式
Side opening



LA-T003
双折中分式
Double-folded center opening type



LA-T004
三折中分式
3-Folded center opening type

色卡 Color card



图片系电脑绘制, 可能与实际略有不同。
The pictures are plotted by computer and are likely somewhat different from the actual products.



载货电梯功能表

Freight elevator function table

标准功能





Standard Function

 运行功能 Running Function	自动运行 Automatic running	电梯在无人操控的情况下，按照给出的指令自动运行，将自动到目的层。 When there is no attendant who operate elevator, elevator will run to the destination floor according to the instruction of passengers automatically.
	司机运行 Attendant running	电梯由司机进行操控，司机按要求给出指令，电梯按指令要求驶向目的层。 Elevator is operated by attendant, attendant press car calls as request of passengers and elevator will run to the destination floor according to the car calls.
	开门时间自动调整 Automatic adjustment of door open holding time	按照层站召唤或轿厢召唤的区别，自动调整保持开门时间。 According to current registered landing call and call call situation, system will automaticly adjust the door open holding time.
	本层重开门 Door re-open at current floor	关门途中，可以按本层站召唤按钮使门重新开启。 When door is closing, door can re-opened by pushing landing call button at current floor.
	轿厢到站钟 Car arrival gong	装于轿顶的电子钟的钟声告知乘客电梯已到站。 Arrival gong on the car top announce passengers that the elevator have arrived.
	指令误登记消除 Car call cancel	误按了轿内楼层指令按钮，重新按一次，即可撤销误选登记。 If passengers press the wrong floor button in car, same button press it again can cancel the wrong register.
	驻车 Parking	关闭电锁后电梯进入驻车状态，电梯不再响应任何外呼。 When electric key switch is turn off, elevator enters into parking state, it will not serve to any landing call.
 安全功能 Safety function	光幕保护 Light curtain protection	光幕被遮挡时，关门动作立即停止且自动开门。 When light curtain is sheltered, door will stop closing at once and automatically open.
	超载停驶 Overload stop	轿厢超载时，电梯门常开，蜂鸣器鸣响并停止于该层站。 When elevator is overload, elevator door keeps opening, buzz rings and elevator stops at the current floor.
	检修操作 Inspection operation	当进入检修状态时，轿厢以低速点动运行。 When elevator enters into inspection state, car runs in jog state.
	故障自诊断 Troubleshooting	控制器可记录故障，以便快速排除故障，迅速恢复电梯运行。 Controller can record faults in memory to facilitate the fault elimination and restore elevator running.
	故障自动停靠 Auto-landing with fault	运行中系统发生故障，安全回路有效的前提下，电梯就近平层开门。 When there is any fault occurred in elevator running, when safety circuit is valid, elevator lands to the nearest floor.
	重复开关门 Door close repeat	关门过程中，有时因阻碍或干扰，电梯门会重复打开或关闭。 On normal mode, after running door close command, if door inter-lock circuit isn't connected, elevator opens door and closes it again.
	上下越层及上下极限保护装置 Top/bottom limit and final limit protection	该装置可有效地防止当电梯万一发生失控时的冲顶或撞底现象，使电梯更安全可靠。 The devices can prevent elevator from crashing to the top or bottom of hoistway in case that elevator is out of control with fault. It ensures the safety and reliability.
	下行超速保护装置 Down running protection	当电梯下降运行超速时，该装置自动切断控制电源，使电机停止运转，安全钳动作，强制电梯停止运行，保障安全。 When elevator runs down in over speed, this device cuts off the control power to stop the motor running, safety gear is motivated to force elevator to stop and ensure the safety.
	上行超速保护装置 Up running protection	当电梯上行超速时，该装置自动将电梯减速或制停。 When elevator runs up in over speed, the device forces elevator to decelerate and braking.
 人机界面 Human-machine Interface	安全回路保护 Safety circuit protection	安全回路断开，或安全回路接触器粘连，电梯立即停止。 When elevator circuit is open or contacts are adhered, elevator stops running at once.
	门联锁保护 Door interlock protection	门全部关闭，电梯方可运行，或门锁接触器粘连，电梯立即停止。 Only all doors are completely closed, elevator can run. When door interlock contacts are adhered, elevator stops running at once.
	主接触器保护 Main contactor protection	系统随时检测主接触器动作是否可靠，发现异常，立即停止运行。 System detects if the main contactor acts reliably, if any abnormal is deteted, elevator stops running at once.
	抱闸检测保护 Brake detecting protection	对抱闸臂的打开和闭合实时检测，若发生异常，或抱闸接触器粘连，电梯禁止启动。 System detects the brake state, if there is any abnormal or braking contacts are adhered, elevator can't start running.
	微动指令按钮 Micro push button	轿内操纵箱指令按钮及层站召唤按钮采用新型微动型按钮。 C.O.P. and H.O.P. both adopts new micro push button.
	运行状态显示 Running state display	系统能显示电梯运行方向、层楼、开关门、故障等信息。 System can indicates running direction, floor, door state, default ect.
	不停层任意设定 No stop floor set	可根据用户需要任意设定不停靠层站。 Set the no stop floor according to the customer's requirement.

 人机界面 Human-machine Interface	待梯层任意设定 Homing floor set	可根据用户需要任意设定待梯层站。 Set the homing floor according to the customer's requirement.
	井道参数自学习 Hoistway self-learning	通过自学习，系统将测出各层楼的间距数据，并永久保存。 Through hoistway self-learning, system can measure out the distance between every floor and record them permanently.
 应急功能 Emergency Function	应急照明 Emergency lighting	停电时，自动打开轿内应急照明。 When power is off, car emergency light is on automatically.
	紧急点动运行 Emergency electric operation	当进入紧急电动状态时，轿厢以低速点动运行。 When elevator enters into emergency electric operation state, elevator runs in low speed inching running.
	五方通话装置 5-way intercom	通过对讲机，可让轿内、轿顶、电梯机房、井道地坑、救援值班室之间通话。 Communication between car inner, car top, machine room, pit and security room through interoms is realized.
 节能功能 Energy Saving	警铃 Alarm bell	紧急时，连续按下轿内操纵箱上的警铃按钮，安装于轿厢顶上的警铃会鸣响。 In emergency situation, pressing the alarm bell button on C.O.P. continuously, alarm bell on car top will ring.
	风扇、照明自动关闭 Fan& light automatic off	在规定的时间内没有召唤或指令信号，轿厢内风扇和照明会自动关闭，以节能。 If there is no car call or landing call in a preset time, car inner fan and light will be automatically off.

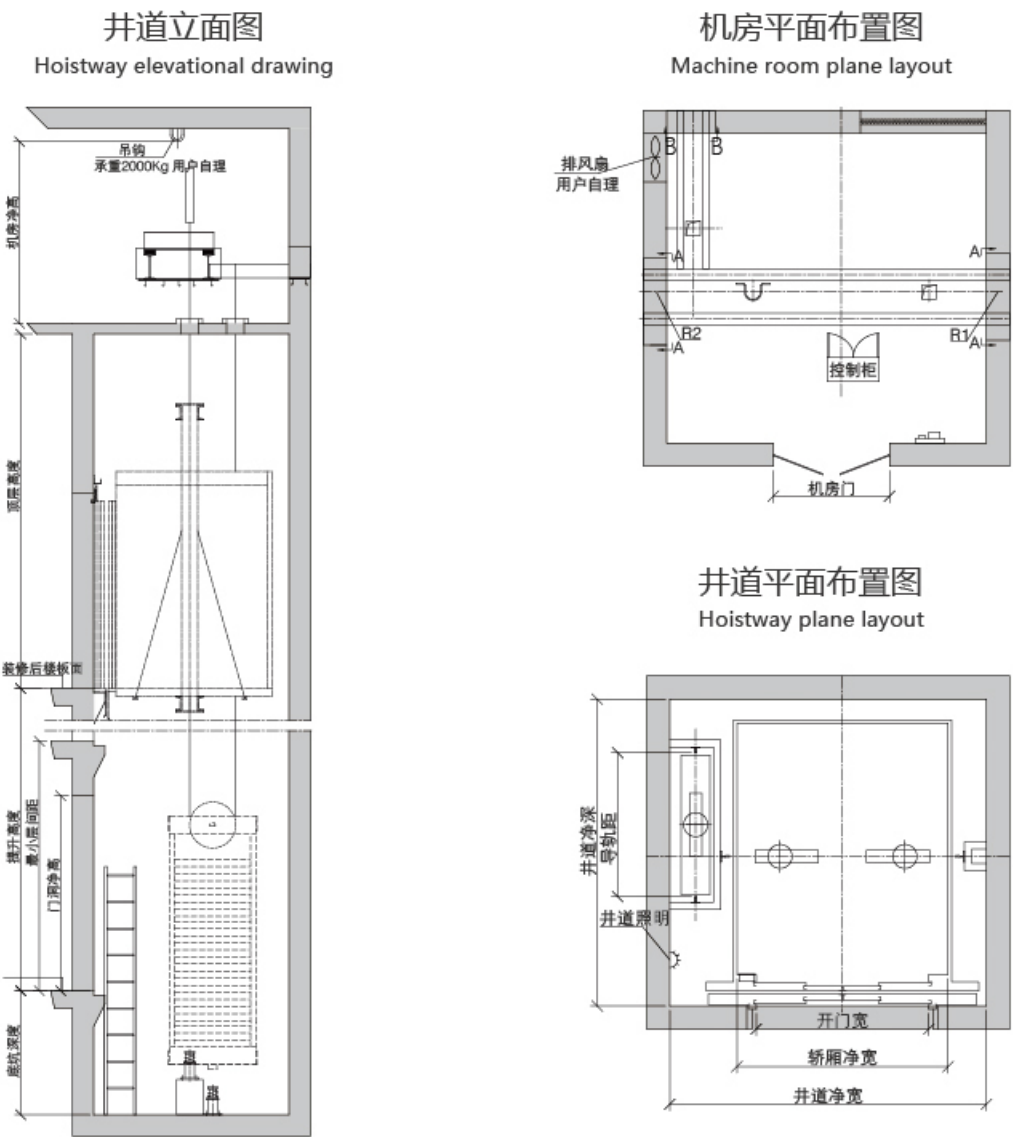
选配功能

Optional Function

 运行功能 Running Function	自动关门时间延长 Door close delay	按轿厢内的专用按钮，可使门在一段时间内保持开门状态。 Pushing the door open button in car can prolong the door open state for a period.
	消防返回 Fire emergency return	消防状态下，所有召唤均被取消，电梯立即驶往指定救援层站停靠，并自动开门。 In fire emergency state, all landing calls are eliminated, elevator runs to the preset floor and open door.
	并联功能 Duplex control function	用于两台电梯并联运行，减少候梯时间，以提高运行效率。 This function is for two elevators' duplex control, it can reduce waiting time and improve the running efficiency.
 人机界面 Human-machine Interface	贯通门控制 Double door control	通过对贯通门的设置，可控制贯通门在相应楼层的开、关动作。 By setting, system can control double door's action on corresponding floor.
	轿厢副操纵箱 Sub-C.O.P.	用于大载重量的电梯，以便让轿厢内人员更方便使用。 It is for building with crowded passengers, it facilitates passengers to register call.
 应急功能 Emergency Function	IC卡控制功能 IC card control	所有（部分）层站须经授权，必须用IC卡电梯方可运行。 All (part) of the floors need entry approval, only with IC card can run the elevator.
	停电自动疏散装置 Automatic Rescue Device (ADR)	停电时，应急装置提供电源，电梯驶往最近层站停靠，自动开门，疏散乘客。 When power is off, this device supplies power to elevator, elevator runs to the nearest floor, open its door and evacuates the passengers.
 监控功能 Monitor function	曳引机监控 Traction machine monitor	无机房电梯装于曳引机顶部的探头能随时监控曳引机动作状况。 The monitor for machine room less elevator installed on the traction machine top can monitor the traction machine state.

载货电梯土建图

Freight elevator construction layout drawing



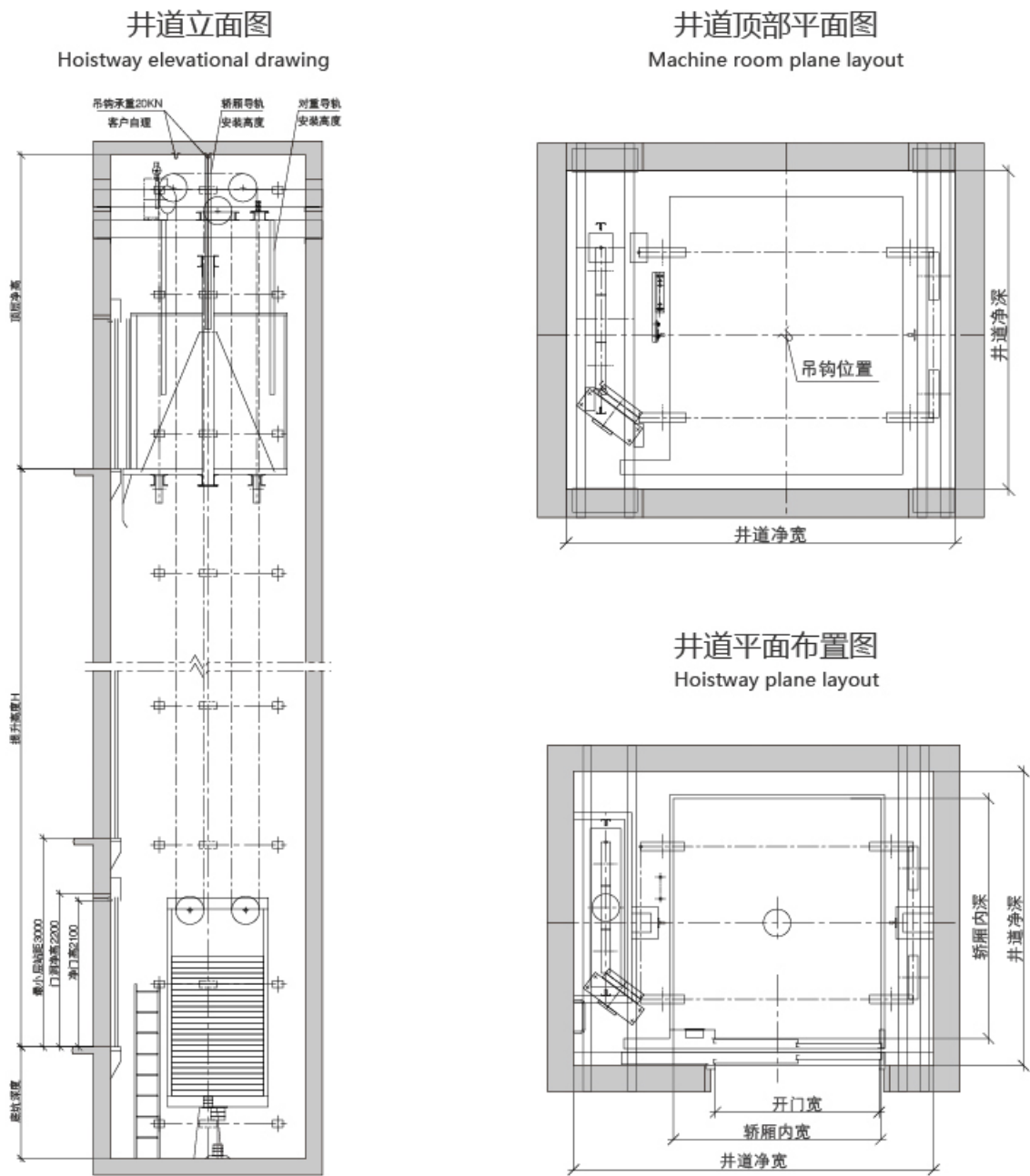
载货电梯参数表 Freight elevator specifications

载重量 Load kg	速度 Speed m/s	轿厢净尺寸 Net size of car (宽×深×高) (W×D×H)	净门尺寸 Net door size (宽×高) (W×H)	井道净尺寸 Shaft net size (宽×深) (W×D)	底坑深度 PIT	顶层高度 OH	机房净尺寸 Machine room net size (宽×深×高) (W×D×H)	开门方式 opening mode
630	0.5	1100×1500×2200	900×2100	2000×2100	1400	4200	3000×3000×2200	双折旁开门 Double-folded side opening
1000	0.5	1300×1800×2200	1000×2100	2200×2400	1400	4200	3000×3500×2200	
1600	0.5	1600×2200×2200	1300×2100	2500×2800	1400	4500	3500×4000×2300	
2000	0.5	1600×2600×2200	1300×2100	2500×3200	1400	4500	3500×4200×2300	
2000	0.5	1900×2200×2200	1500×2100	2800×2800	1400	4500	3500×4200×2300	
3000	0.5	2200×2700×2200	1800×2100	3300×3300	1700	4500	3800×4200×2400	双折中分 四扇门 Double-folded center opening four-leaf
5000	0.25/0.5	2400×3600×2200	2000×2100	3800×4200	1700	5000	3800×4200×2600	
5000	0.25/0.5	2800×3200×2200	2400×2400	4200×3800	1700	5500	4200×3800×2600	
6000	0.25/0.5	2600×4000×2500	2200×2400	4000×4600	1800	5800	4000×4600×3000	
8000	0.25/0.5	3000×4500×2500	2600×2400	4500×5100	1800	6200	4500×5100×3000	
10000	0.25/0.5	3200×5000×2700	2800×2600	4800×5500	1800	6200	4800×5500×3000	

注：上述尺寸供设计参考，具体尺寸以合同签约时提供的土建图为准。
Not: Only for reference, final manufacture please follow contract.

无机房载货电梯土建图

Machine roomless freight elevator construction layout drawing



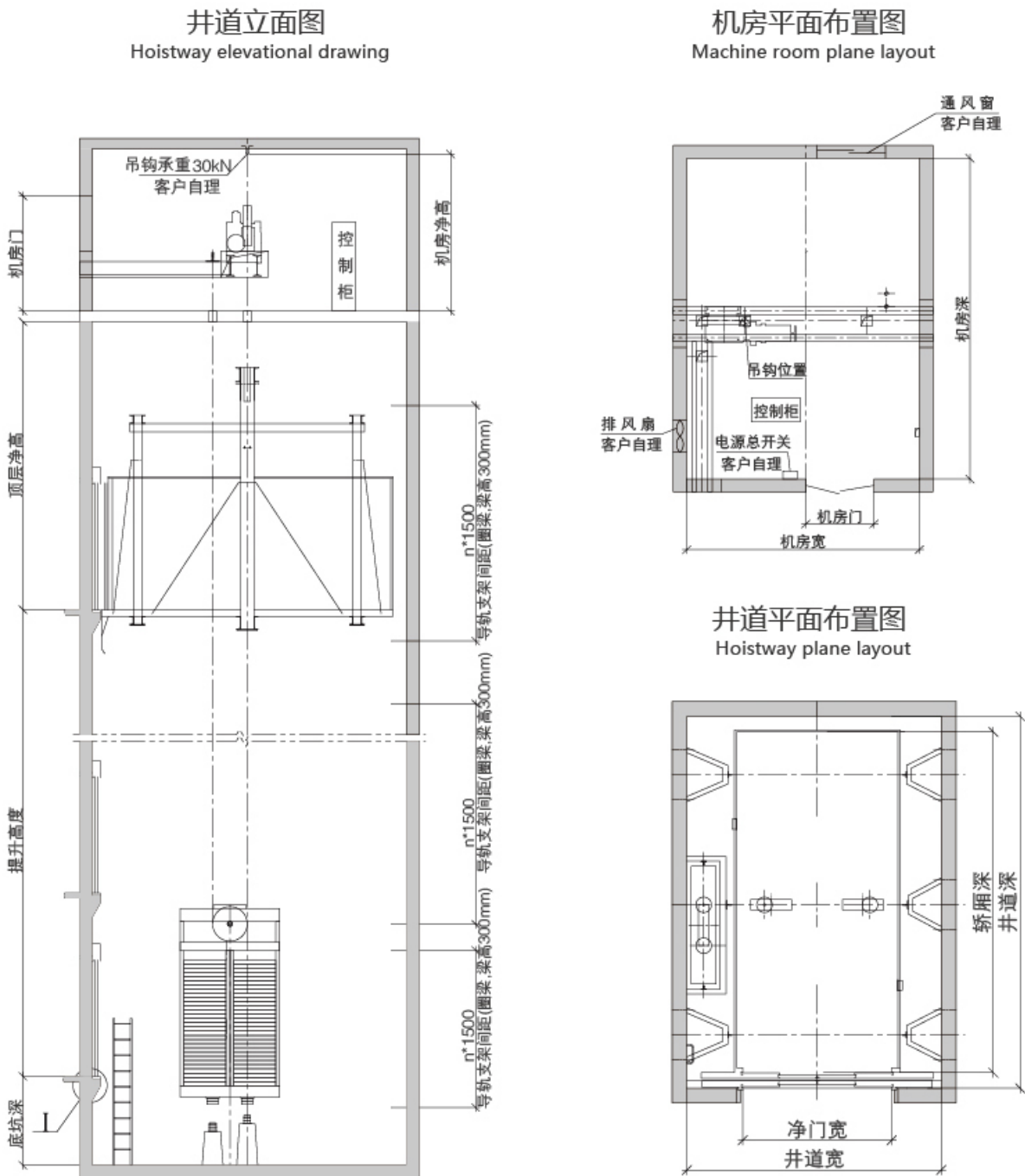
无机房载货电梯参数表 Machine roomless freight elevator specifications

载重量 Load kg	速度 Speed m/s	轿厢净尺寸 Net size of car (宽×深×高) (W×D×H)	净门尺寸 Net door size (宽×高) (W×H)	井道净尺寸 Shaft net size (宽×深) (W×D)	底坑深度 PIT	顶层高度 OH	开门方式 opening mode
1000	0.5	1600×1500×2200	1300×2100	2800×2100	1700	4500	双折旁开门 Double-foldedside opening
1600	0.5	1600×2200×2200	1300×2100	3000×2800	1700	4500	
2000	0.5	1900×2200×2200	1500×2100	3300×2800	1700	4500	
3000	0.5	2200×2700×2200	1800×2100	3650×3300	1700	4800	双折中分四扇门 Double-folded center opening four-leaf
5000	0.5	2400×3600×2500	2000×2400	4100×4100	1800	5500	

注：上述尺寸供设计参考，具体尺寸以合同签约时提供的土建图为准。
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汽车电梯土建图

Automobile elevator construction layout drawing



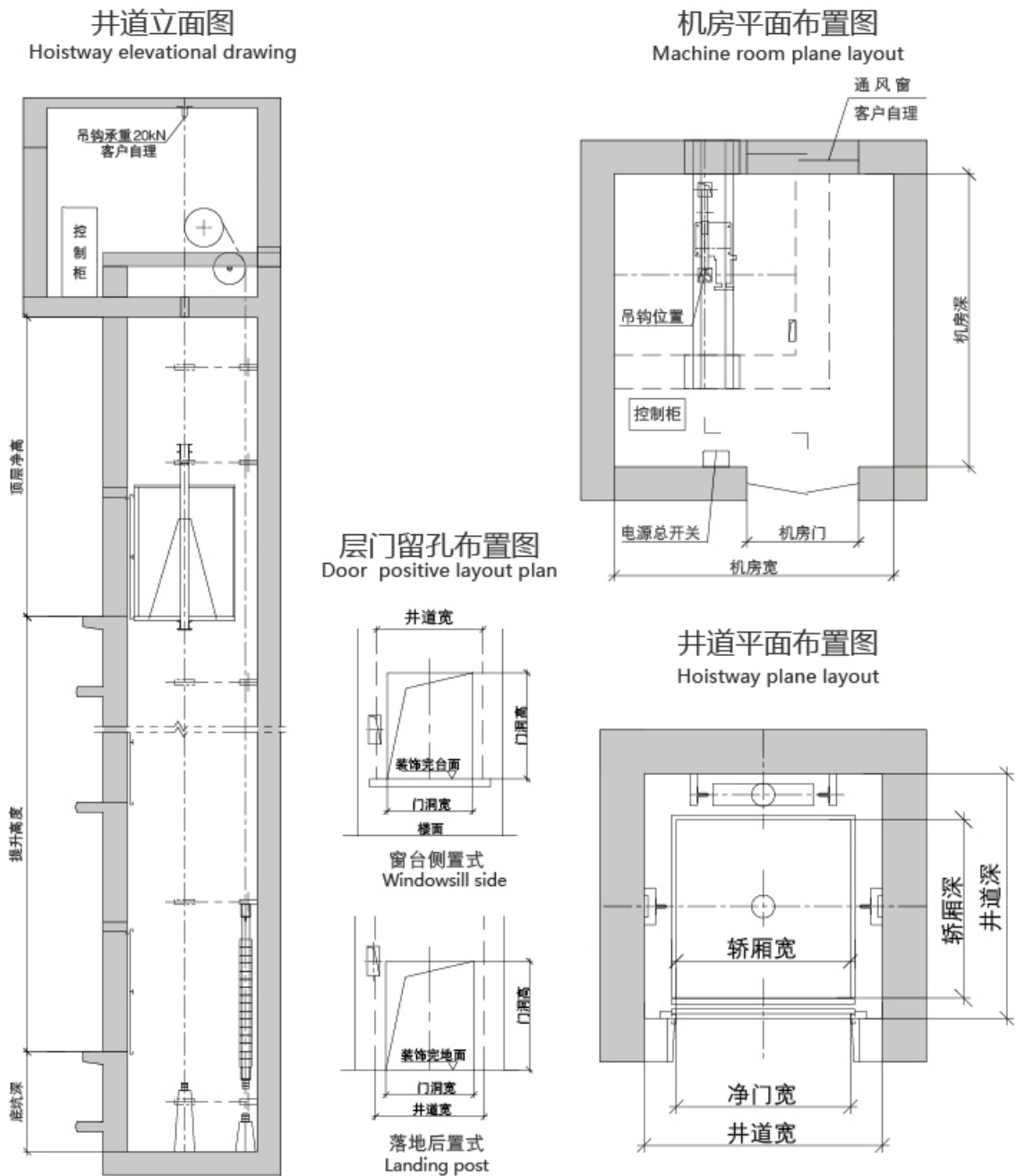
汽车电梯参数表 Automobile elevator specifications

载重量 Load kg	速度 Speed m/s	轿厢净尺寸 Net size of car (宽×深×高) (W×D×H)	净门尺寸 Net door size (宽×高) (W×H)	井道净尺寸 Shaft net size (宽×深) (W×D)	底坑深度 PIT	顶层高度 OH	机房净尺寸 Machine room net size (宽×深×高) (W×D×H)	开门方式 opening mode
3000	0.5	2600×5400×2500	2400×2400	4100×6000	1700	5000	4100×6000×2800	双折中分四扇门 Double-folded center opening four-leaf
5000	0.25/0.5	3000×6000×2500	2600×2400	4500×6600	1700	5000	4500×6600×3000	

注：上述尺寸供设计参考，具体尺寸以合同签约时提供的土建图为准。
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杂物电梯土建图

Dumbwaiter elevator construction layout drawing



杂物电梯参数表 Dumbwaiter elevator specifications

载重量 Load kg	速度 Speed m/s	轿厢净尺寸 Net size of car (宽×深×高) (W×D×H)	净开门 Net door opening (宽×高) (W×H)	井道净尺寸 Shaft net size (宽×深) (W×D)	底坑深度 PIT	顶层高度 OH	开门方式 opening mode
100	0.35	800×800×1000	800×1000	1200×1200	1000	3300	上下直分式 up/down straight opening
200	0.35	900×1000×1000	900×1000	1300×1400	1000	3300	
250	0.35	950×1000×1200	950×1200	1350×1400	1000	3500	
300	0.35	1000×1000×1200	1000×1200	1400×1400	1000	3500	

注：上述尺寸供设计参考，具体尺寸以合同签约时提供的土建图为准。
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服务体系

Service system



专业团队
Professional team



快捷服务
Convenient service



服务专线
Service line



专业维保
Professional maintenance

专业服务团队

所有维保服务人员均接受严格的岗位培训、执行标准的维保流程，并依托强大的技术支持网络和管理系统，向客户提供完善的服务体验。

安心电梯远程监控系统

实现24小时电梯远程监控、及时报警救援和维保、检验等工作的信息化管理，保障电梯安全运行，电梯管理更方便快捷。

Professional service team

All the repair and maintenance staff go through the strict post training. It executes the standard repair & maintenance flow. Relying on the powerful technical support networks and management systems, it provides broad customers with perfect service experiences.

Trustworthy elevator long-distance monitor system

It fulfills information management such as 24-hour elevator long-distance monitor, prompt alarm rescue, repair & maintenance, inspection etc. It ensures the secure elevator travel with the more prompt and convenient elevator management.



电梯日常保养

■ 在业主方电梯安装验收完后即进入我公司为期12个月的产品质保服务期。

在产品质保服务期中我们将定期派专业保养人员在业主方电梯现场进行巡回维护保养。每台电梯的维护周期将被控制在15天1次。维修保养人员每三个月向业主提交一份有关电梯维修保养情况的报告。对业主方有些在运行时间上有特殊要求的电梯，在维护时间上，我公司将充分考虑业主方的安排。如果产品质保期内发现问题，我公司人员将在接到通知后24小时内进行处理。在产品质保期结束前，我公司将为业主方电梯免费进行一次综合性检查和试验，并免费校正发现的问题。在产品质保服务期中，我们将为业主方电梯进行24小时电话值班服务。

■ 签定电梯维修保养合同后

在业主方与我公司签订维修保养合同后我们将定期派专业维修人员在业主方电梯现场进行巡回维护保养。

每台电梯的维护周期将被控制在15天1次。

对业主方有些在运行时间上有特殊要求的电梯，在维护时间上，我公司将充分考虑业主方的安排。

为业主方提供24小时电梯紧急维修服务。

每年免费一次“年度安全检查”，以优惠的价格解决发现的问题。

零配件的供应

■ 在产品质保期内

对于业主方的电梯我公司将免费更换正常使用情况下损坏的电梯零部件。

在电梯使用现场我们还将准备一部分常用易损件做到随用随有。

■ 在产品质保期过后

超出产品质量保修期后，备件供应确保大厦电梯连续安全高质量运行。

在签订维修保养合同后对于业主方电梯我公司将以优惠的价格提供正常情况下损坏的电梯零部件。

在签订维修保养合同后还将准备一部分零部件做到随用随有。

■ 在技术培训方面

安排专业维修保养工程师到现场为业主方提供免费技术指导，并培训电梯使用操作方法和电梯管理人员。

Elevator daily maintenance

■ Our 12-month quality guarantee begins after the elevator has been installed and inspected by our clients.

Within quality warranty service period of our products, we will regularly assign the professional maintenance staff to round-maintain the owners' elevators at site. Maintenance cycle of each elevator is controlled within 15 days each time. The repair and maintenance staff will submit a report of the elevator's repair and maintenance conditions to the owners every three months. Regarding the owners' elevators which have special requirements in the running time, our company fully considers the owners' arrangement in maintenance time. If there is something wrong within quality warranty period of the products, our staff will handle it within 24 hours upon receiving the notice. Before quality warranty period ends, our company will freely execute a comprehensive inspection and test to the owners' elevators, correct the problems. Within the quality warranty service time of the products, we will hold 24-hour phone duty service for the owners' elevators.

■ Sign the maintenance and repair contract with our clients

After the owner signing "The Elevator Repair & Maintenance Contract" with our company, we will regularly assign the professional repair staff to round-maintain the owners' elevators at site. Maintenance cycle of each elevator is controlled within 15 days each time. Regarding the owners' elevators which have special requirements in running time, our company will fully consider the owners' arrangements in maintenance time. We provide the owners with 24-hour elevator emergency repair service. One free "Annual Safety Check" per year solves the problems by the favorable price.

Supply of spare parts

■ Within the quality guarantee period

We will freely replace any broken spare parts which go wrong during normal operation for our clients. We will also supply some spare parts on site for replacement during daily maintenance.

■ After the quality guarantee period

The replacement parts should ensure the consistent, safe and efficient operation of elevators. After signing the repair and maintenance contract, the spare parts will be supplied to our clients at the most favorable price. We also offer some replacement parts for daily maintenance.

■ Technical training

We arrange the professional repair and maintenance engineers to freely technically instruct, train the elevators' operation staff for vast owners at site.