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National Service Hotline



FREIGHT ELEVATOR LC/G2000 载货电梯

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专业铸就品质 · 服务体现价值
Profession Cast The Quality · Service Reflect The Value

LINCOLN[®]
林肯电梯

林肯电梯 深谙的安全之道

LINCOLN ELEVATOR Dedicated To Elevator Safety

十大安全保护体系

Ten major safety protection systems



01. 多碟安全制动器

曳引机采用多碟安全制动，即使其中一个制动器发生故障，电梯仍然可以可靠制停，使电梯运行更安全。

Multi-disc safety brake
Apply multi-disc safety brake. Even if one brake is in failure, elevator can also stop reliably and safely.

联合多项自主创新的安全专利，成熟应用多项行业安全技术，搭载以上十大安全系统，时刻为乘客提供多重保护，使乘行更安心。

Combine several independent innovation safety patents, apply profession technology and installs above ten safety systems. Always provide customers with multi-protection and safe ride.

02. 安全钳

当电梯超过标准限定速度时，通过限速器联动安全钳动作，确保电梯安全制停。

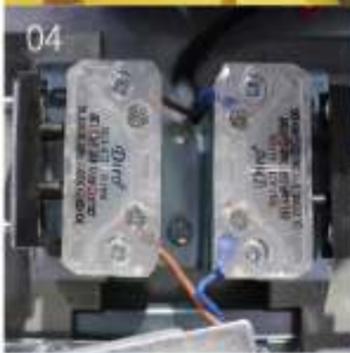
Safety gear
The speed governor coordinates the safety gear to ensure the elevator's safe stop if the elevator's speed is over the standard speed limit.



03. 限速器

当电梯速度超过标准限定速度时，限速器动作切断电气安全回路保证电梯停止运行。

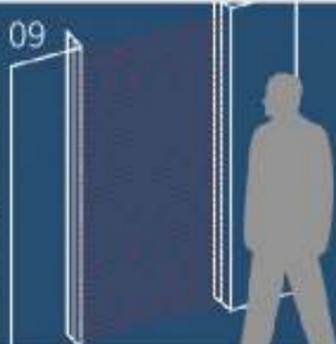
Speed governor
When the elevator's speed is over the standard speed limit, the speed governor will cut off the elevator's safety circuit to make sure that the elevator stops operating.



04. 封门锁保护

电梯在检修或其他原因短接门锁回路时，控制系统会启动保护程序，阻止电梯运行，确保乘客安全。

Lock sealing protection
When the elevator is being overhauled or short circuit happens due to other reasons, the control system will start protection procedure to stop the elevator from operating so as to ensure passengers' security.



防夹人安全系统

电梯关门时，门机控制系统自动检测电机力矩，力矩大于 150N 时门机将自动反向开启，防止夹人。

Clamping resistance safety system
When the elevator door is closing, the door motor control system will test the torque automatically. If the torque is over 150N, the door will open in the reverse direction to prevent passengers from being damped.



05. 曳引机封星技术

当电梯抱闸失效时，通过封星短路曳引机三相绕组，使电梯可靠制停。

Short circuit technology of the traction machine
If the elevator brake fails, the elevator would stop reliably and safely thanks to the three-phase winding of the short circuit traction machine.

06. 缓冲器

采用液压式缓冲器，可以最大程度的吸收电梯非正常冲击能量，保护乘客安全。

Buffer
Hydraulic buffer is adopted to ensure passengers' safety by absorbing the elevator's abnormal impact energy to the maximum degree.

07. 轿厢平层区意外移动保护装置

针对电梯层站停层时开门状态下开锁区内发生无指令移动的情况，林肯独创的轿厢意外移动保护装置，通过设置在井道内的检测装置发出检测信号给控制系统进而触发制动器动作使轿厢安全制停，保证乘客出入安全。

Unintended car movement protection system
When unintended movement happens within the lock area when elevator stops at a certain floor, Lincoln unintended car movement protection system works. Detector in shaft sends signals to brake of control system and brake stops elevator safely. Thus passengers can go in or out safely.

08. 上行超速保护

当电梯上行的速度超过额定速度的 1.2 倍时，该装置自动将电梯减速或制停。

Over speed protection while lifting
When the elevator is going up at a speed that is over 1.2 times faster than its nominal speed, this device will automatically slow down or stop the elevator.

09. 光幕门安全保护装置

采用红外线发生接收器，在电梯门口形成一幅红外保护网。不仅为电梯乘客提供最大限度的安全保障，而且增强了整个电梯系统的可靠性。

Light curtain safety protection device
The infrared receiver with rays is applied to form an infrared protection network outside the elevator door, which enhances the reliability of the whole elevator system as well as provides passengers with maximum security assurance.

举重若轻 畅通城市垂直交通

Lift Something Heavy Just Like Lifting Something Light, Smooth Vertical Traffic For City

林肯载货电梯 Lincoln freight elevator

采用先进的智能技术、控制技术、安全技术，极大的提高了载货电梯的性能和质量。维护更加方便；优化设计的轿厢宽敞明亮、经济实用；广泛适用于工厂、仓库、商场、购物中心、图书馆等不同用途和环境，满足不同客户的需求。

Adopts advanced intelligent, control, and safety technology, which greatly improve elevator performance and quality and provide more convenient maintenance method. Optimized and economic car design is applied for elevator. It is widely used in factory, warehouse, shopping mall, libraries and other different functions and environments, satisfying different clients' demands.

VVVF变频变压调速控制系统

- 1.VVVF变频变压对电梯进行全闭环控制，可使电梯运行有效节能20%；
- 2.通过特殊化的图形速度曲线确保电梯加减速时的平稳性；
- 3.全新噪音控制技术，有效降低运行过程中所产生的噪音，使电梯运行宁静、平稳。

VVVF speed control system

- 1.VVVF makes full-closed loop control as to elevator, realizing 20% effective energy conservation of elevators;
- 2.Ensure stability of elevator in deceleration through special graphic speed curve;
- 3.New noise control technology reduces noise in operation, making elevator operation quiet and stable.

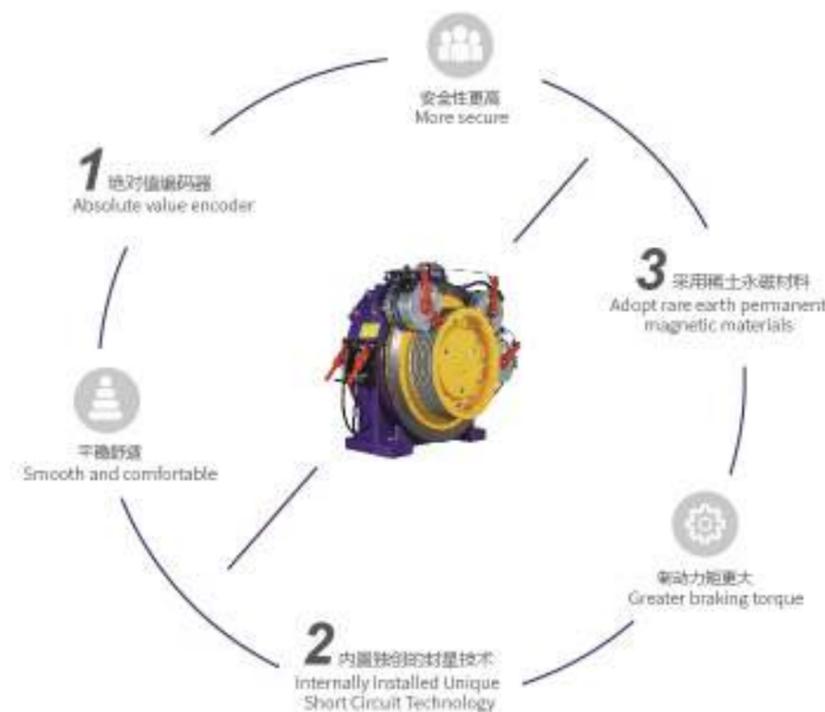


性能卓越的主机系统

- 1.采用进口绝对值编码器，控制精度高；
- 2.封星技术、多碟制动，安全可靠；
- 3.输出转矩大，过载能力强，转矩脉动小，运行平稳；
- 4.采用进口轴承、高精度配合，低噪运行；
- 5.采用稀土永磁材料，同步控制技术，实现高效节能；
- 6.无齿轮结构，无需加油，降低维护成本，节能环保；
- 7.体积小，实现小机房和无机房结构，节省建筑空间。

Main machines system with outstanding performance

- 1.Adopt imported absolute value encoder with high accuracy control;
- 2.Short Circuit Technology, multi-disc brake, safe and reliable;
- 3.Large output wrench, strong overload capacity, small torque ripple, stable operation;
- 4.Adopt imported bearing, highly precise coordination, low-noise operation;
- 5.Adopt rare earth permanent magnetic materials, synchronous control technology to realize high efficiency and energy conservation;
- 6.Gearless structure, no need to add oil, reduce maintenance cost, eco-efficiency;
- 7.Small size, realizing small machine room and machine roomless structure, saving construction space.



打破格局 创造建筑无限可能

Break Off Pattern, Create Infinite Possibility Of Construction

林肯无机房载货电梯对技术进行革命性改进，打破电梯原有的必须安装机房的模式，创造一种不用机房仍能安全运行的电梯运作方案。电梯驱动主机放置于井道顶部导轨上，最大程度提高现代化建筑空间利用率，给客户以低成本运行体验。

Lincoln machine roomless freight elevator makes revolutionary improvement on technology, breaking off original pattern with machine room and creating an elevator operation scheme which realizes safe operation without machine room. Install traction machine on top guide rail in shaft, improving to the largest extent usable space for modern construction, providing for clients with low cost operation experience.

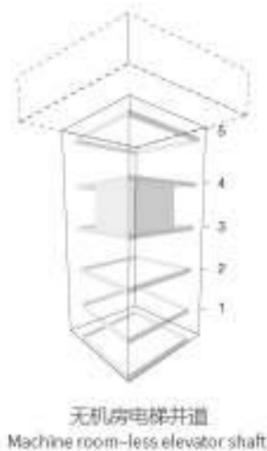
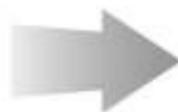
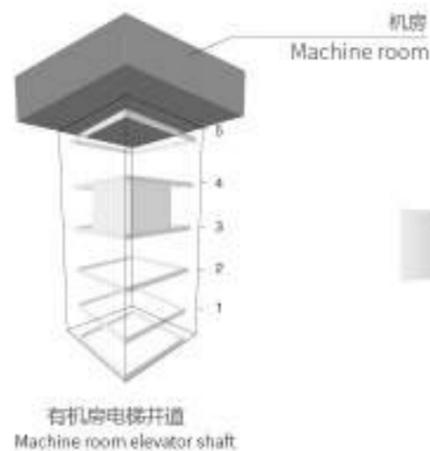


大空间，大有可能

1. 无齿轮曳引机安装在顶部，极大的节省了建筑空间；
2. 把电梯控制柜设计的更加“苗条”，使其可以设置在井道壁内；
3. 无机房电梯采用“底吊式”悬挂结构，节省了一定的顶层空间。

Large space, great possibility

1. Gearless tractor is installed on the top, greatly saving construction space;
2. Design elevator cabinet to be slimmer, making it set inside well;
3. Machine roomless elevator adopts underneath suspended structure, saving certain space in top floor.

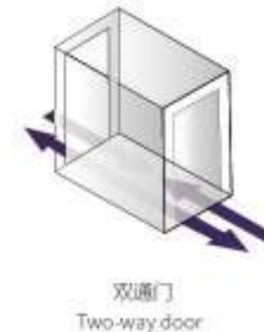
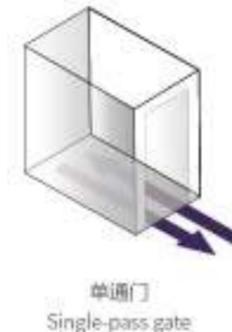
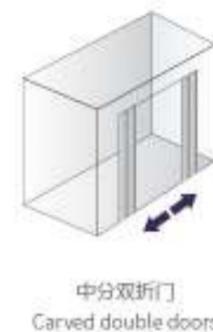
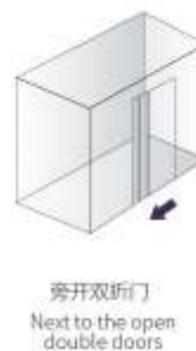


多种开门方式

为了满足用户的不同进出要求，林肯载货电梯有旁开门、中分双折门、单通门以及双通门等多种开门方式供选择，与工厂、仓储、百货商场、物业中心等建筑物结构灵活匹配。

The multiple door opening modes

In order to satisfy users' different requirements, Lincoln freight elevator adopts multiple opening modes, such as side opening door, folding door, single door, and through-opening door and so on. Multiple door opening modes makes elevator applicable for various building structures, like factory, warehouse, shopping mall, logistics center and so on.



汽车电梯 打破汽车空间束缚

Car Elevator Break Limited Space



爱车空间的上乘之选

成熟汽车升降技术与林肯强大技术的高效结合，优化了汽车电梯平滑、无噪的产品特性，是众多场合停车与垂直运输的理想之选。

Best choice for car

Efficient combination of mature car lift technology and elevator technology of LINCOLN, optimizes the smooth and noiseless features of the car elevators. It is the ideal choice for car parking and vertical transportation in various situations.



吊顶：喷涂钢板，方形亚克力灯饰，LED照明（吊轿厢一体化结构）

轿壁轿门：喷涂钢板
操纵箱：发纹不锈钢
地板：压花防滑钢板

Ceiling: painting steel panel, square acrylic lighting, LED illumination (integrated structure)
Car walls and car door: painting steel panel
Car operating panel: hairline stainless steel
Floor: checkered steel plate

吊顶：喷涂钢板，方形亚克力灯饰，LED照明（吊轿厢一体化结构）

轿壁轿门：喷涂钢板
操纵箱：发纹不锈钢
地板：压花防滑钢板

Ceiling: painting steel panel, square acrylic lighting, LED illumination (integrated structure)
Car walls and car door: painting steel panel
Car operating panel: hairline stainless steel
Floor: checkered steel plate

2.5米
超宽轿厢
Extra-Wide Car

6米
超大进深
Extra-depth

载货电梯 经典轿厢装潢

Freight Elevator Classical Car Decoration



LCH-01

吊顶：喷涂钢板，
方形亚克力灯饰，
LED照明（吊轿顶一体式）

轿壁轿门：喷涂钢板
操纵箱：发纹不锈钢
地板：压花防滑钢板

Ceiling: painting steel panel, square acrylic lighting, LED illumination (integrated structure)
Car walls and car door: painting steel panel
Car operating panel: hairline stainless steel
Floor: checkered steel plate

注：图片系电脑绘制，可能与实际略有不同，以实物为准。
Note: Pictures have been drawn by computer, it might be slightly different from actual colors. Please take real product as criterion.



LCH-02

吊顶：喷涂钢板，中间圆形LED照明
（吊轿顶一体式）

轿壁轿门：喷涂钢板
操纵箱：发纹不锈钢
地板：压花防滑钢板

Ceiling: painting steel panel, with round LED lighting in middle (integrated structure)
Car walls and car door: painting steel panel
Car operating panel: hairline stainless steel
Floor: checkered steel plate

注：图片系电脑绘制，可能与实际略有不同，以实物为准。
Note: Pictures have been drawn by computer, it might be slightly different from actual colors. Please take real product as criterion.

载货电梯 经典轿厢装潢

Freight Elevator Classical Car Decoration



简约的设计能扩展空间感，赋予空间的一份简洁之美，装潢设计从材料到结构的运用均以简约为
依据，尽量独特个性，经济实用。

Concise design can expand sense of space, endow space with concise beauty. The decoration design is
based on simplicity from materials to structure, manifesting unique personality, which is economical and
practical.



XCOP01



XLCH08-1



XLCH08-2

吊顶 Ceiling



LCHT-01



LCHT-02

地板 Floor



LCHD-01

压花防滑钢板
knurling checkered plate



LCHD-02

PVC地板
PVC floor

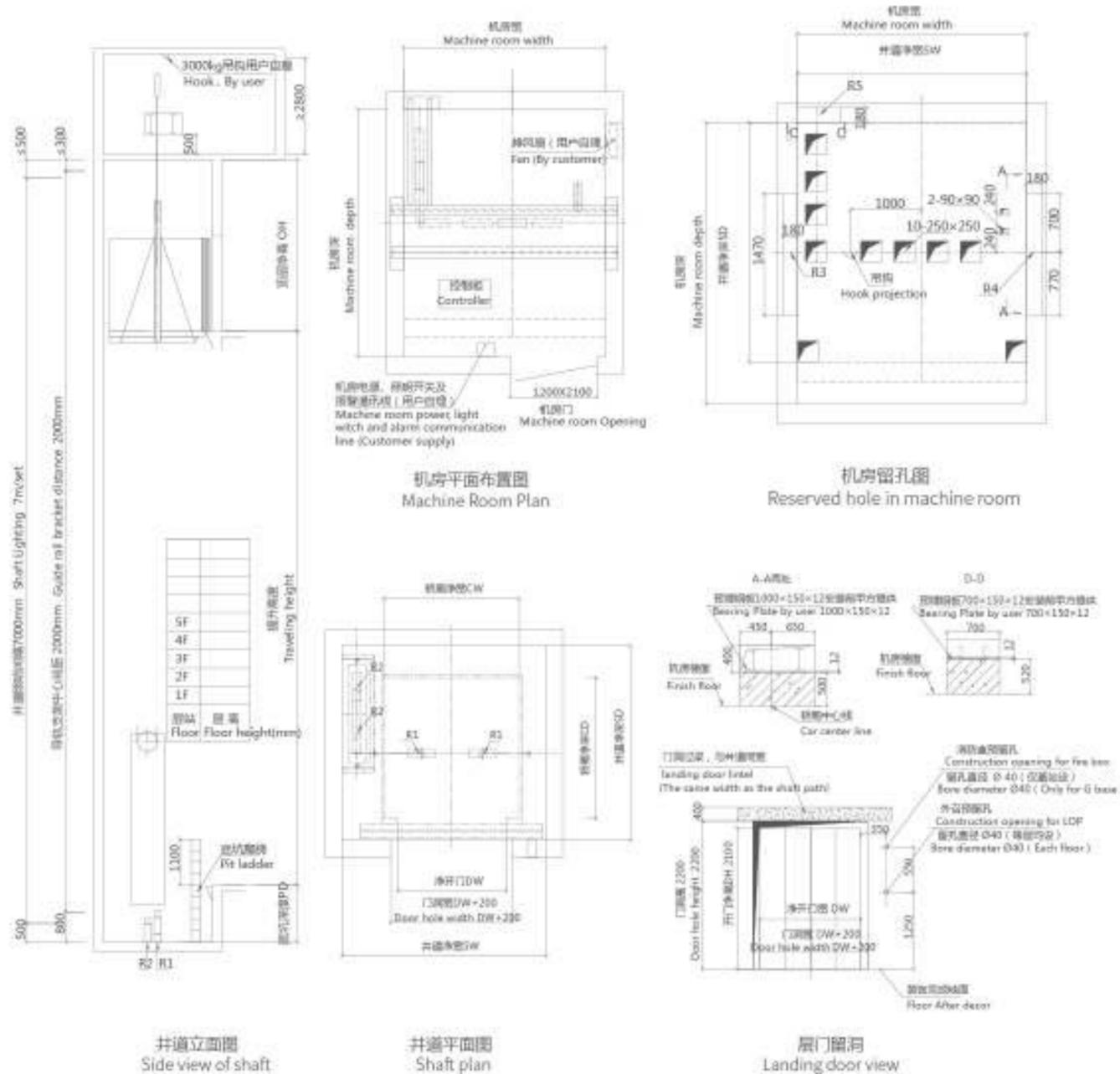
载货电梯 Freight elevator	型号 Type	载重 Capacity (kg)	速度 Speed (m/s)	提升高度 Lift height (m)
	LC/G2000	≤3000	0.5-1.5	60-80
	LC/MG2000	≤3000	0.5-1.0	60-80
	LC/G3000	≤5000	0.5	60-80

载货电梯标准功能 Freight elevator standard functions

全集选控制 Full sets selection elevator	变频器过热保护 Inverter overheat protection
紧急电动运行 Emergency operation	控制柜轿顶检修显示功能 Control cabinet car top inspection display function
应急照明 Emergency lighting	电梯制动时间保护 Elevator braking time protection
开关门时间设置功能 Door open time setting function	主要接触器防触头粘连保护 Main contactor contact anti-adhesion protection
强制关门 Force close	端站反向指令消除功能 Reverse instruction cancellation
无呼自返基站功能 Automatically return to the base station	控制柜抗干扰设计 Control cabinet anti-interference design
超载不启动 (警示灯及蜂鸣器) Overload Protection (warning light and buzzer)	电梯上下终端过行程极限保护 Elevator up/down terminal over travel limit protection
厅及轿厢方向显示 Hall and car direction display	控制系统电源相序保护 Control system power supply phase sequence protection
光幕门保护装置 Light curtain door protection	轿顶、底坑检修照明 Car top and pit inspection lighting
开、关门按钮灯 Open/close button lights	电梯上下终端强制减速保护 Elevator up/down terminal forced deceleration protection
五方通话功能 Five-party calls	电机过热保护功能 Motor overheat protection function
消防迫降 Emergency landing	到站铃 Arrival ring
抱闸反馈检测 Self-testing system of brake force	UCMP轿厢意外移动保护 Unexpected car movement protection system

LC/G2000土建参数 载货电梯系列

Freight Elevator Series Construction Parameters



载重 Capacity (kg)	速度 Speed (m/s)	开门尺寸 Door opening size	开门方式 Door opening	轿厢尺寸 Car size	井道尺寸 Shaft size	机房尺寸 Machine room size	顶层高度 Top floor height	底坑深度 Pit depth
		宽×高 DW×DH(mm)		宽×深×高 CW×CD×CH(mm)	宽×深 SW×SD(mm)	宽×深 width×depth(mm)	OH (mm)	PD (mm)
2000	0.5-1.5	1600×2100	中分双折门	2000×2100×2200	3050×2900	3050×4000	4500	1500
3000	0.5-1.5	1700×2100	中分双折门	2200×2500×2200	3200×3200	3200×4000	4500	1500

注：1、小机房电梯机房尺寸与井道尺寸相同 2、贯通时或特殊情况咨询公司技术部 3、5000kg货梯咨询公司技术部
Notes: 1. The dimension of small elevator machine room is the same with that of hoistway. 2. Please consult the company's Technical Department when encountering special circumstances. 3. If you want to know more about 5000KG freight elevator, please contact our Technical Department.

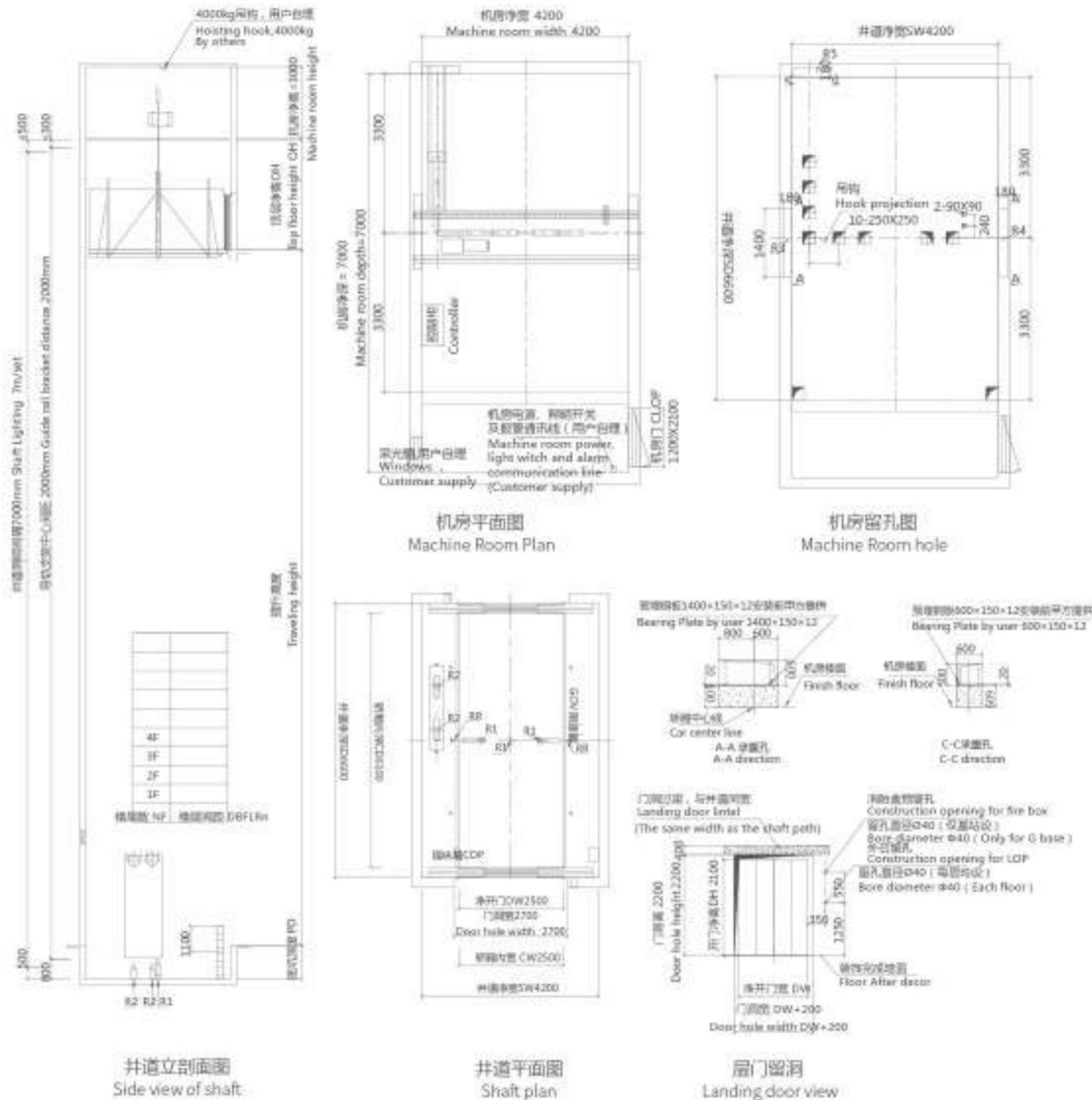
业主和土建承包商须注意事项 User and construction contractor should finish the following work

- 井道内环境温度保持+5℃~40℃之间，相对湿度不大于85%。
- 机房内应保持通风良好，并设置照明和电源插座，规格为2P+PE250V。主机房的照度不小于200LX，同时，照明电源与动力电源应分开。
- 机房顶部应按图示位置安装吊钩，其承载能力≥2t；机房内所有通往井道的孔洞四周均应设置高50mm的台阶。
- 将动力电源、照明电源送到机房门旁墙上的电源箱，供电电压相对额定电压的波动应在±7%的范围内。
- 主电源开关在断开位置时应应用挂锁或等效装置锁住，且不应切断以下供电电路：轿厢照明和通风，轿顶和电源插座，机房内电源插座，电梯井道照明，报警装置。
- 井道顶部应设置通风孔，其面积不得小于井道水平断面面积的1%。
- 图中所示井道平面系用铅垂线测定的最小净空尺寸，基建时必须确保有一定余量：提升高度≤30m的井道：0~+25mm；30m≤提升高度≤60m的井道：0~+35mm；60m≤提升高度≤90m的井道：0~+50mm。
- 电梯安装之前，所有层门门洞必须设有高度不小于1.2米的安全防护围封，并应保证有足够的强度。
- 电梯厅门、呼梯显示预留洞及其他预留孔洞在电梯安装完毕时需进行回填装修。
- 井道壁的要求（需在订货时说明）：①当井道结构为砼结构时，可不设预埋件。②砖结构墙，或者框架式结构墙，导轨支架安装处应在相应的位置设置圈梁，圈梁的高度尺寸不小于300mm，其位置为距井道顶部与底部各500mm处设置一道，中间圈梁间距分别为2000mm。③若井道结构为砖结构墙，或者框架式结构墙而没有设置圈梁，则应在距离底坑地面500mm起每2000mm在导轨架安装处增加预埋件，其预埋件尺寸：t10x150mmx450mm。
- 各层门框在距装修后地面2200mm以上处设置一圈梁，其梁高度尺寸不小于300mm，长为整个层门框井道宽度。
- 井道应设置永久性照明装置，井道照明应从机房和底坑分别进行控制。
- 当相邻两层门地坎之间的距离超过11m时，其间应设置安全门。
- 底坑应防水。底坑深度超过1.5m时应设置一个固定钢梯，且此钢梯不应进入电梯运行空间。
- 底坑中缓冲器墩应在电梯安装人员指导下制作，在每个墩子底部须以Φ200mm圆钢预埋Φ12mm圆钢4根，并伸出地面300mm，墩子应能承受图中给出的冲击力。
- 五方对讲时，值班室对讲的接口位于电梯机房控制柜附近或井道底坑，用户可根据其自身需要确定对讲电话接口位置并预埋通讯线。
- 为方便电梯安装时的接地需要，井道底坑应预埋接地桩且其接地电阻≤4Ω。

- The environmental temperature in the well must be between +5℃ ~ 40℃ and the relative humidity is not more than 85%.
- The machine room shall maintain good ventilation, lighting installation and an electrical outlet, of which specifications is 2P+PE250V. The illuminance beside the main engine is not less than 200LX, meanwhile, the lighting power and the power supply shall be separated.
- The hook should be installed at the top of the machine room according to the position of the diagram, of which bearing capacity is more than 2t; all the construction opening in the machine room, which lead to the shaft shall be provided with 50mm steps.
- The power supply and the lighting power should be sent to the power box next to the wall of the machine room door. The fluctuation of the supply voltage to the rated voltage shall be within the range of ±7%.
- The main power switch shall be locked with a padlock or equivalent device when in the disconnected position, and the following power supply circuit should not be cut off: car lighting and ventilation, car top and power outlet, power supply socket in the engine room, shaft lighting and alarm device.
- Ventilation holes shall be set at the top of the shaft, and the area should be no less than 1% of shaft horizontal cross area.
- During the time of infrastructure, it must be ensured that the clearance size determined by the plumb line of the well plane system shown in the figure have a certain margin: For shaft of hoisting height ≤ 30m, margin: 0~+25mm; For shaft of 30m ≤ hoisting height ≤ 60m, margin: 0~+35mm; For shaft of 60m ≤ hoisting height ≤ 90m, margin: 0~+50mm.
- Before elevator installed, all landing door holes should be guarded by safety protection enclosure (no less than 1.2m high and with enough strength).
- All construction opening should be backfilled and decorated after installation.
- Shaft wall requirements (must be specified when ordering).
①When the well structure is a concrete structure, it doesn't need to be provided with embedded member.
②When it is the brick wall or frame structure wall, the guide rail bracket shall be provided in the corresponding beam position, the beam height is not less than 300mm, which should be set at 500mm from the top and bottom of the shaft and the spacing between the middle ring beams is 2000mm.
③If the well structure is a brick wall, or wall frame structure without beam ring, 500mm from the ground bottom, it shall increase the embedded iron at the rail frame every 2000mm and embedded iron size: t10x150mmx450mm.
- Set a beam at each door at the 2200mm above the finished ground. The beam height should be not less than 300mm; its length should be the width of the well of the entire floor.
- The shaft shall be provided with permanent lighting, and the shaft lighting shall be controlled separately from the engine room and the pit.
- If sill distance of two adjacent landing doors exceeds 11m, install a safety door in middle.
- Pit should be waterproof. The pit, which is deeper than 1.5m, should be provided a fixed steel ladder. This ladder should not enter into elevator running space.
- The buffer block in the bottom pit shall be made under the guidance of the elevator operator. At the bottom of each block, it needs 4 round steel bars of Φ12mm around Φ100mm, and protrude 300mm above the ground. The block should withstand the impact force given in the diagram.
- For the five-party intercom, the intercom interface of the duty room is located near the elevator room control cabinet or the well bottom pit. The user can determine the position of the intercom telephone interface according to its own needs and pre-embed the communication line.
- For the convenience of the grounding during the elevator installation, the well pit shall be embedded in grounding post and grounding resistance value should be no more than 4Ω.

LC/G3000土建参数 汽车电梯系列

Car Elevator Series Construction Parameters



载重 Capacity (kg)	速度 Speed (m/s)	开门尺寸 Door opening size	开门方式 Door opening	轿厢尺寸 Car size	井道尺寸 Shaft size	机房尺寸 Machine room size	顶层高度 Top floor height	底坑深度 Pit depth
		宽×高 DW×DH(mm)		宽×深×高 CW×CD×CH(mm)	宽×深 SW×SD(mm)	宽×深 width×depth(mm)	OH(mm)	PD(mm)
3000	0.5	2500×2100	中分双折门	2500×6100×2200	4200×6600	4200×7000	4500	1500

注：5000kg汽车电梯请联系本公司技术部，并提供车型车身尺寸。

Notes: If you want to know more about 5000KG vehicle elevator, please contact our Technical Department, and provide information about the model and dimension of vehicle.

业主和土建承包商须注意事项 User and construction contractor should finish the following work

- 井道内环境温度保持+5℃~40℃之间，相对湿度不大于85%。
- 机房内应保持通风良好，并设置照明和电源插座，照度为2P+PE250V。主机房的照度不小于200LX，同时，照明电源与动力电源应分开。
- 机房顶部应按图示位置安装吊钩，其承载能力≥2t；机房内所有通往井道的孔洞四周均应设置高50mm的台阶。
- 将动力电源、照明电源送到机房外墙壁上的电源箱，供电电压相对额定电压的波动应在±7%的范围内。
- 主电源开关在断开位置时应应用挂锁或等效装置锁住，且不应切断以下供电电路：轿厢照明和通风、轿顶和电源插座、机房内电源插座、电梯井道照明、报警装置。
- 井道顶部应设置风孔，其面积不得小于井道水平横截面积的1%。
- 图中所示井道平面系用铅垂线测定的最小净空尺寸，基建时必须确保有一定余量：提升高度≤30m的井道：0~+25mm；30m<提升高度≤60m的井道：0~+35mm；60m<提升高度≤90m的井道：0~+50mm。
- 电梯安装之前，所有层门门洞必须设有高度不小于1.2米的安全防护围封，并应保证有足够的刚度。
- 电梯厅门、呼梯显示装置及其他预留孔洞在电梯安装完毕时应进行回填装修。
- 井道壁的要求（需在订货时说明）：①当井道结构为砼结构时，可不设预埋件。②砖结构墙，或者框架式结构墙，导轨支架安装处应在相应的位置设置圈梁，圈梁的高度尺寸不小于300mm，其位置为距井道顶部与底部各500mm处设置一道，中间圈梁间距分别为2000mm。③若井道结构为砖结构墙，或者框架式结构墙而没有设置圈梁，则应在距离坑底地面500mm起每2000mm在导轨架安装处增加预埋铁，其预埋铁尺寸：t10x150mmx450mm。
- 各层门框在距装修后地面2200mm以上处设置一圈梁，其梁高度尺寸不小于300mm，长为整个层门框井道宽度。
- 井道应设置永久性照明装置，井道照明应从机房和底坑分别进行控制。
- 当相邻两层门地坎之间的距离超过11m时，其间应设置安全门。
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