



中美合资

波士顿电梯

FREELY ENJOY WITH THE WORLD
INTELLECTUALLY CREATE A BRIGHT FUTURE

畅享天地 智造未来

旧楼加装电梯
Elevator Installed On Old Building

全国免费服务热线
National free service hotline **400-887-3858**

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2017年05月版

STM 瑞腾传媒 0573-88133900 13511315781



2017版



波士顿电梯，传承独立战争的自由平等精神，遵循美国工业的精细臻美，
融入更多的现代科技。如今，以更加自信的发展姿态，为未来中国的电梯事业塑造更加美好的可能。

BSDUN elevator inherits freedom & equality spirits from War of Independence.
It abides by the perfect and careful American industrial work-style. It combines with more and more modern technologies.
Now, it portrays a finer possibility for future Chinese elevator career by more confident development.

畅享天地 智造未来

FREELY ENJOY WITH THE WORLD

INTELLECTUALLY CREATE A BRIGHT FUTURE

企业价值观

Enterprise value concept

安全、服务、品质、道德
Safety, service, quality, morals

经营理念

Management ideas

以人为本，创新为魂，服务为源，品牌为旗
Human-centered, regarding innovation as soul; service as origin and brand as objective

企业使命

Enterprise mission

注重产品高性价比，满足顾客专属订制
提供企业发展空间，成就员工品质生活
Think highly of high product cost performance, satisfy the exclusive orders from vast clients
Offer business development space, fulfill high quality life for broad employees

企业简介 COMPANY PROFILES



科技新起点，品质新高度。随着2008年以来“再工业化”战略部署开始，美国制造业逐步脱胎换骨，更催生一种新的生产方式，造就类似于信息革命那样的大趋势，掀起第四次工业革命。

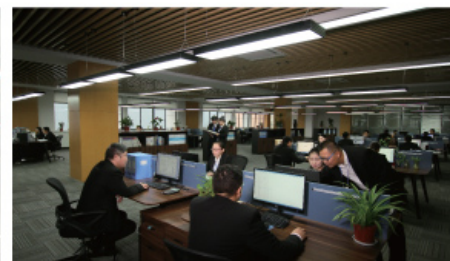
波士顿电梯凭借得天独厚的地域品牌和文化底蕴优势，让美式创新精神和本土的千年智慧交相辉映。波士顿电梯以电梯产业为载体，以世界顶级电梯制造工艺及控制技术为契合点，横跨欧美之间，完成产业链的精确对接，打造精深电梯品质的新篇章。2013年，波士顿电梯投资3.5亿人民币在浙江投资建厂，并成立了集研发、制造、销售、安装、维保为一体的中美合资波士顿电梯有限公司。2015年，中美合资波士顿电梯有限公司三期厂房全面竣工，年生产能力达1万台。

短短数年间，波士顿电梯凭借其艺术的高品位，完美的工艺和领先科技，如同他们当初的信念般生生不息，蓬勃发展。

It gets new technological starting-point and new quality height. Following the start of “re-industrialization” strategic arrangement since 2008, American manufacture industry gradually and thoroughly remodels itself. Furthermore, it hastens a new manufacture mode. It creates a big trend which is similar to information revolution. It begins No. 4 industrial revolution.

BSDUN elevator relies on its richly-endowed geographical brand and cultural advantages. American innovative spirits adds radiance to millenary local intelligence. BSDUN takes elevator industry as carrier. It regards top-grade international elevator manufacture craft & control technology as coherence point. It stretches over Europe and America to finish precise connection of industrial chain. It creates new masterpiece of fine elevator quality. In 2013, BSDUN Elevator invested in 350 million RMB to establish factory in Zhejiang. It sets up “Sino-American Joint Venture BSDUN Elevator Co., Ltd.” which integrates elevator research, development, manufacture, sales, installation, repair and maintenance into one. In 2015, it comprehensively completed Third Phase Factory Houses of Sino-American Joint Venture BSDUN Elevator Co., Ltd. It can annually manufacture 10,000 sets of various elevators.

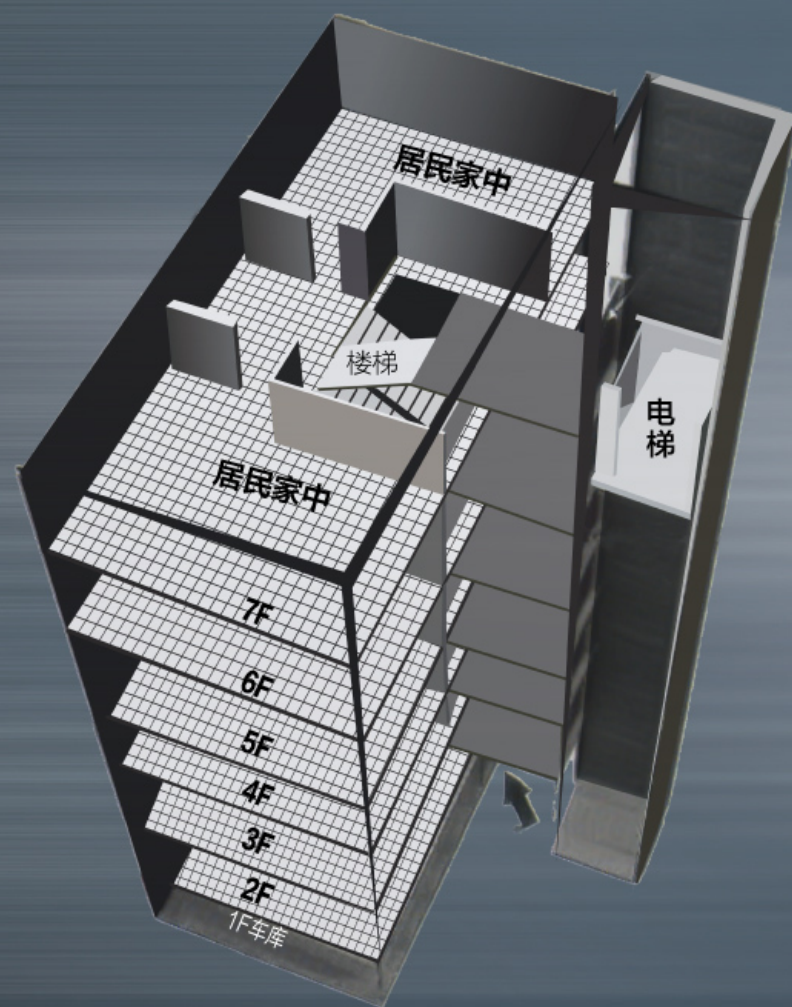
Within short years, BSDUN is backed by its high and artistic grade, perfect craft and leading technology. It continues and prospers in an endless succession like its original faith.



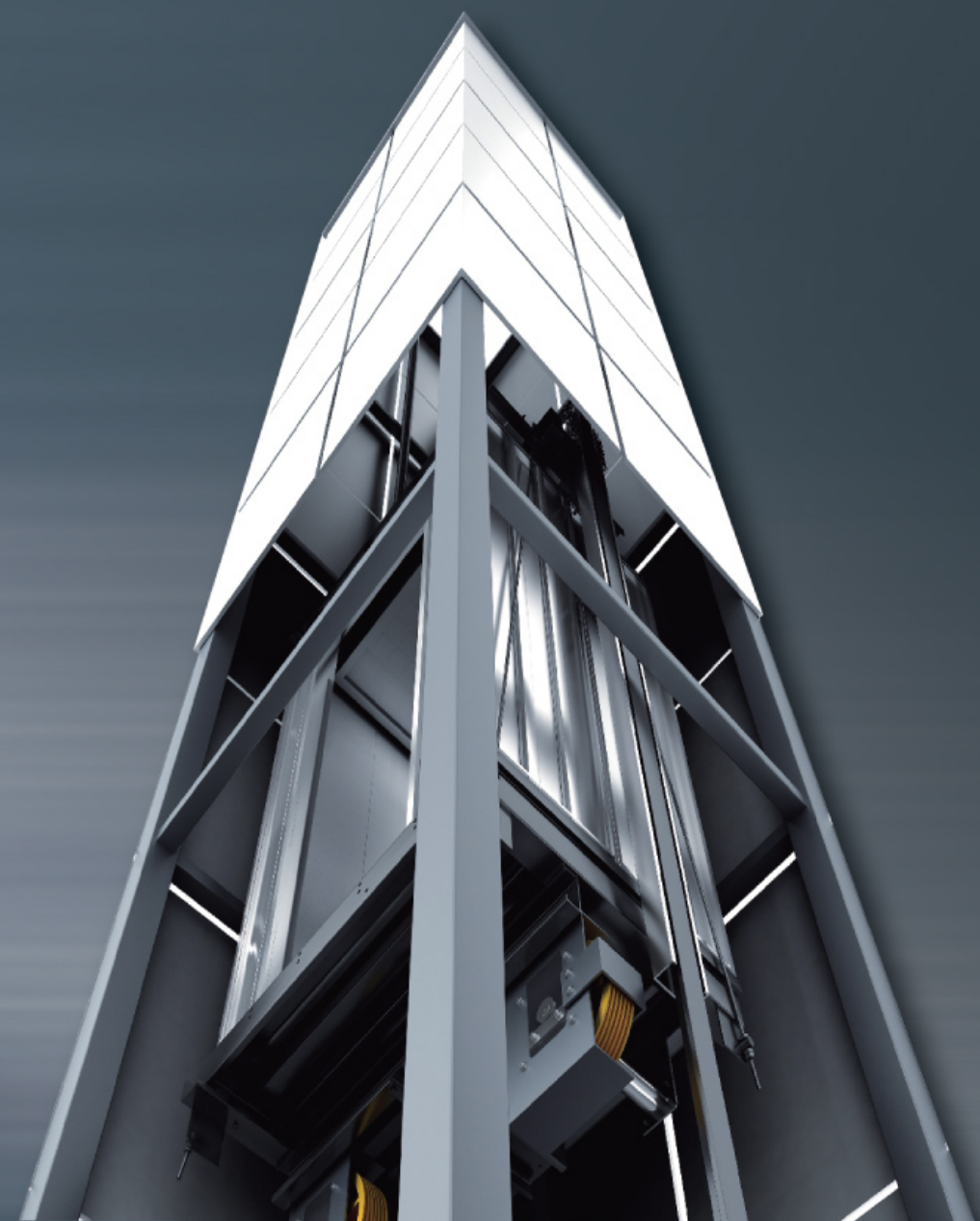
多样化井道结构 Multiple well structure

波士顿旧楼加装电梯可提供混凝土预制结构、玻璃结构、铝塑板结构、彩钢板结构等多样化井道结构，与不同建筑相匹配，同时不影响建筑外观，用户可根据自己的个性化需求进行选择。

BSDUN buildings equipped with elevator can provide prefabricated concrete structure, the structure of the glass, aluminous model board structure, choi steel structure, such as diversification shaft structure, match with different construction, will not affect the architectural appearance at the same time, the user can choose according to their individual needs.



混凝土预制结构
CONCRETE PRECAST STRUCTURE



钢结构一体化电梯
STEEL STRUCTURE INTEGRATED ELEVATOR

5 solution plans to old-building Elevator-re-installation

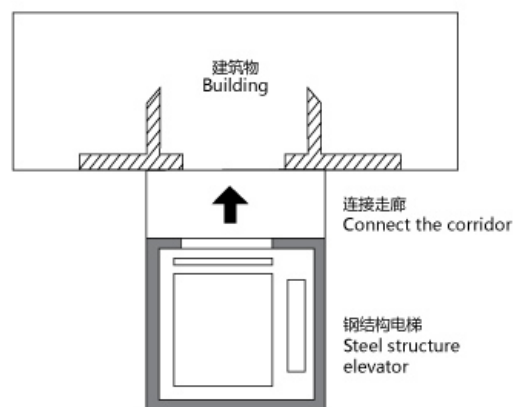
5大旧楼加装电梯解决方案

直走廊式

钢结构电梯连接建筑物外部的走廊，可减少建筑物内部空间占用。

Straight corridor

The steel structure elevator connects the outer corridor of the building. Can reduce the building interior space occupation.

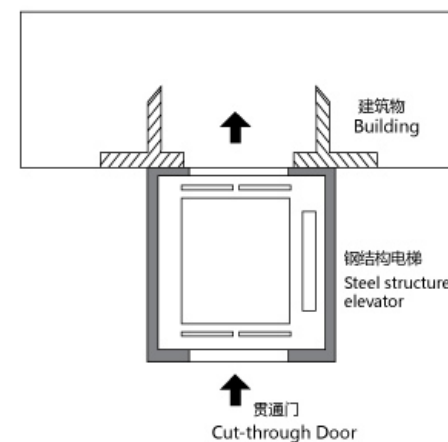
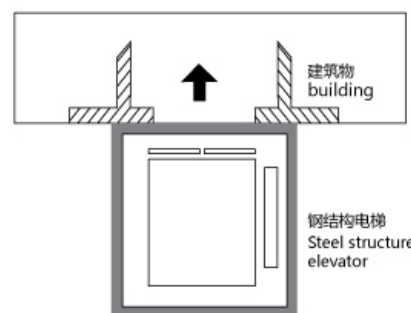


无平台直连式（单门）

原建筑物内部有可利用空间，用户可直接首层进入钢结构电梯，无需平台连接，单门进入。

Non platform direct connection(single door)

There is room available inside the original building. Users can enter the steel structure elevator directly on the first floor. No platform connection, single entry.

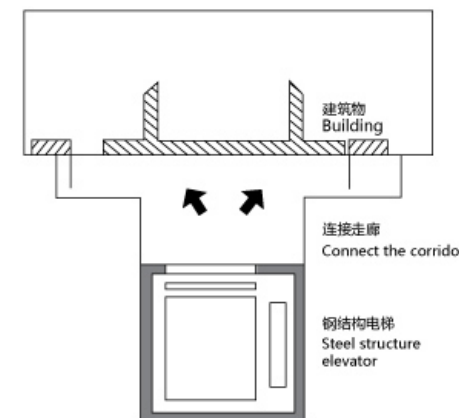


无平台直连式（贯通门）

原建筑物内部有可利用空间，无需平台连接，用户可直接首层进入钢结构电梯，并采用贯通门，电梯两侧用户均可使用。

Non platform direct connection (cut-through door)

There is room available inside the original building. Without platform connection, users can enter the steel structure elevator directly on the first floor. Through the open door, both sides of the elevator can be used.

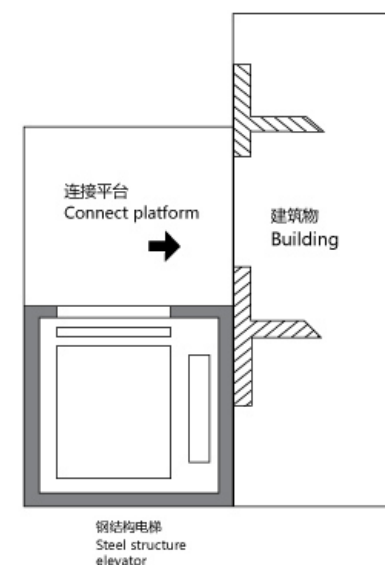


双跨耳走廊式

钢结构电梯连接建筑物外部的走廊，从走廊左右两端均可进入建筑物内，可减少建筑物内部占用空间。

Double-ear corridor

The steel structure elevator connects the outer corridor of the building. From both sides of the corridor can enter the building. Can reduce the building interior occupation space.



侧平台式

钢结构电梯连接建筑物侧面的平台，用户到达平台后即可直接进入建筑物内，可减少建筑物内部占用空间。

Side platform

The steel structure elevator connects the platform on the side of the building. When the user reaches the platform, he can enter directly into the building. Can reduce the building interior occupation space.



Five Major Advantages Rapidly Improve The Habitation Quality

5大优势 快速提升人居品质

随着人口老龄化及楼价的不断攀升，旧楼加装电梯亦是大势所趋，也是政府倡导和鼓励的民生工程。为适应社会经济发展和人口老龄化的需求，进一步完善既有住宅建筑使用功能，方便居民生活，提高居住品质，既有多层住宅加装电梯工作应当坚持“政府引导、业主自愿、充分协商、兼顾各方、保障安全、费用共担、质量第一”的原则；应结合使用要求和原有建筑的既有条件，不改变原有建筑主体结构形式和不破坏原建筑基础，满足规划、建筑结构、消防及安全疏散等要求；应采用新技术、新材料、新工艺、新设备，提高科技含量，提高环保节能水平。

With the aging of the population and the rising prices of buildings, it is also the trend of the old building to install elevators. It is also a project of the people's livelihood that the government advocates and encourages. In order to adapt to social and economic development and the aging of the population needs to further improve both the multilayer residential building use function, convenient living, improve the living quality, both multistoried buildings equipped with elevator work should adhere to the "government guide, owner voluntarily, full consultation, both parties share, safety, cost, quality first" principle; Should be combined with requirements and the existing conditions of original building, without changing the original buildings main structure form and does not destroy the original basis, planning, building structure, fire fighting and safety evacuation requirements; New technology, new materials, new technology and equipment should be adopted to improve the content of science and technology and raise the level of environmental protection.

快速安装，方便快捷

电梯出厂前就进行模块化预组装，分段化处理，然后根据距离选择整体或分体运输方案，正常情况下现场安装只需对模块化分段吊装、连接，将钢结构和电梯主体安装完毕，调试完毕正常运行，最大限度缩短安装时间，不会影响小区居民的日常生活。

Quick installation, convenient and quick

Elevator before they leave the modular assembling, segmentation, and then choose whole according to distance, transport or fission normally only for modular block hoisting installation, connection, and 90 minutes to steel structure and the elevator installed, 3 days can finish testing the normal operation, shorten the installation time, maximum will not affect the community residents' daily life.



分体运输



整体运输

节约空间 不侵占公共资源

采用集成生产，一次成型工艺，使钢结构井道与电梯设备装置有机结合，占地面积最小可达3.5㎡，不占道、不堵消防通道、不侵占公共资源、不影响居民日常生活。小曳引轮、无底座设计，进一步节省了顶层空间。

Saving space does not occupy public resources

Using integrated production, a molding process, make the steel shaft with an organic combination of elevator equipment, covers an area of a minimum of 3.5 ㎡, no encroachments, no blocking by the fire escape, do not encroach on public resources, do not affect the residents' daily life. small tracer wheel, no base design, further save the top-level space.

稳固可靠 保障乘客安全

电梯井道采用坚固耐用并经过电泳处理的钢结构制作，结合建筑主体连接，能与各种砖混结构建筑、水泥建筑稳固可靠连接；先进的变频门机系统，运用红外感应技术，开合灵敏，保障乘客安全。

Strong and reliable passenger safety

Lift shaft adopts durable and through electrophoresis processing steel structure production, combined with construction main body connection, with all kinds of composite masonry structure building, cement building solid reliable connection; Advanced frequency conversion machine system, using infrared sensor technology, to open and close sensitive, ensure passenger safety.

多重外包选择 匹配各种建筑

四面观光、三面观光、单面观光、全铝塑板、全包彩钢板，丰富的外包选择，不止满足各类消费人群需要，更完美匹配不同建筑风格，为建筑锦上添花。

Multiple outsourcing options match various buildings

All around tourism, sightseeing, tourism, the whole package of aluminum-plastic plate, turnkey choi steel, rich outsourcing options, not only can meet the needs of all kinds of consumer groups, a more perfect match different architectural styles, for building the icing on the cake.

多样化入户连接方式 满足多种需求

两种入户方式（平层入户和错半层入户），配合五种连接方式，形成多样化的组合方案，能满足不同场地的加装要求。

Multiple access methods meet a variety of requirements

Two entry modes (flat door and half wrong layer door), with five kinds of connection mode, formed a variety of combination plan, meet the demand of different ground mounted.



● 平层入户
Flat storey home entry



● 错半层入户
Intersected half home entry

A variety of Appearance options

多种材质选择

玻璃结构

井道框架采用坚固的铝合金材料，四面设置高强度钢化夹胶玻璃，安全可靠，杜绝玻璃破碎引起的危险，外形美观，且不影响采光，用户在上下之中能尽情享受电梯外景色。

Glass appearance

Well, using the framework of Aluminum Alloy solid material, four set high strength tempered glass, safe and reliable, to eliminate the risk of breaking glass, beautiful appearance, and does not influence the lighting, users can enjoy the scenery on the elevator.

玻璃颜色可选：

Glass optional:



透明玻璃
transparent glass

蓝色
blue

茶色
light brown

黑色
black



铝塑板材料

加工性能优异，施工便捷，并具有超耐候性，无论在炎热或严寒气候中都无损于外观，长达20年不褪色，色彩多样，可满足客户的个性化需求，彰显建筑的优雅与大气。

Aluminum Composite Materials

Excellent processing performance, convenient construction, and with super weatherability, whether in hot or cold climates are intact in appearance, as long as 20 years do not fade, color variety, can meet the personalized needs of customers, highlighting the building and elegant atmosphere.

铝塑板颜色可选：

Aluminum plate optional:



米黄
beige

象牙白
ivory white

元宝金
pure gold

深灰
dark grey



彩钢板材料

重量轻，拼接式安装灵活便捷，大大缩短施工周期，有效降低成本，具有良好的保温隔热效果，使轿厢内保持舒适的环境温度，外观色泽鲜艳，使用寿命较长。

Aluminium plastic plate structure

Light weight, flexible and convenient installation and splicing, greatly shorten the construction period, reduce the cost, has good insulation effect, so that the car to maintain a comfortable temperature, the appearance of bright color, long service life.

彩钢板颜色可选：

Painted steel plate material



象牙白
ivory white

元宝金
pure gold

深灰
dark grey

米黄
beige



Car decoration

轿厢装潢



BP-01B 标配 (Standard)

轿顶：镜面不锈钢，亚克力灯饰，四周LED灯
轿壁：发纹不锈钢
扶手：无
地板：PVC

Ceiling: Mirror stainless steel, acrylic lighting
decoration, LED lighting
Car walls: Hairline stainless steel
Handrail: None
Floor: PVC



BG-01 选配 (Optional)

上下罩：钢板烤漆，乳白色亚克力装饰
观光壁：安全夹胶玻璃
装饰顶：钢板烤漆框架，
亚克力顶板，LED灯

轿壁：发纹不锈钢
扶手：不锈钢扁扶手
地板：PVC

Car cover: Steel plate, white acrylic decorative
Observation wall: Safety laminated glass
Decoration ceiling: Steel and painted steel frame,
acrylic roof, LED lights
Car wall: Hairline stainless steel
Handrail: Stainless steel flat armrest
Floor: PVC



BG-03 选配 (Optional)

上下罩：钢板喷涂加装饰灯
观光壁：安全夹胶玻璃
装饰顶：镜面不锈钢，筒灯
轿壁：发纹不锈钢
扶手：不锈钢单管
地板：PVC

Car cover: Painted steel plate and
decoration lamp
Observation wall: Safety laminated glass
Decoration ceiling: Mirror stainless steel,
down lamp
Car wall: Hairline stainless steel panel
Handrail: Stainless steel mono-tube
Floor: PVC

Human-machine Interface

人机界面



BOP-01
标配 (Standard)

操纵箱显示屏 (选配)
Car operation panel display (Optional)



外呼显示屏 (选配)
Car operation panel display (Optional)



挂壁式
wall-mountable



BOP-CW01
标配 (Standard)



BOP-02



BOP-CW02
嵌入式
The embedded



BOP-04
一体式操纵箱
Integrated operation panel

按钮
Button



标配 Standard



选配 Optional

按钮发光颜色
System solutions



红色 Red



橙色 Orange



绿色 Green



蓝色 Blue



白色 White

由于印刷工艺的限制, 实际加工的颜色可能与目录略有不同, 最终选型可根据实际材料和色样决定。

Because of restrictions in aspect of printing craft and technology, there will be slight difference between colors in this catalogue, the final model selection can be decided according to the actual material and color specimen.



BOP-CW04
挂壁式
wall-mountable

Elevator function


电梯功能


标准功能 Standard function


| | | |
|---|--|---|
|  运行功能 Running Function | 电梯变频驱动 VVVF drive | 精确调整电动机转速，令电梯启动、运行、停止时的速度曲线平稳、圆滑，获得良好的舒适感。 Motor rotation speed can be precisely adjusted to get smooth and stable speed curve in lift start, run and stop and gain perfect performance and comfort. |
| | 门机变频驱动 VVVF door operator | 精确调整门电机转速，使电梯门的开启、关闭更轻柔灵敏。 Motor rotation speed can be precisely adjusted to get a more gentle and sensitive door opening/closing. |
| | VIP（专用）运行 VIP (special) running | 动作VIP开关，使电梯不响应外召，仅响应轿内指令。 After VIP switch is turned on, elevator will not serve to landing call, it only serve to car call. |
| | 自动不停站通过 Automatic by pass | 当轿内挤满乘客或负载接近预估值，为保持最大运行效率，该轿厢将自动越过召唤层站。 When the car is full load, the elevator will by pass the landing calls which has been registered to keep maximum running efficiency. |
| | 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 situation, system will automatically 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. |
| | 即时关门 Instant door close | 电梯停站开门到位时，按下关门按钮，门立即被关闭。 When door is completely opened, by pushing the door close button, door will close at once. |
| | 轿厢到站钟 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 advices passengers that elevator arrives. |
| | 指令误登记消除 Car call cancel | 乘客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. |
| | 驻停 Parking | 关闭电锁后电梯进入驻停状态，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. |
| | 直接停靠 Direct parking | 完全根据距离原则，平层无爬行，大大提高了运行效率。 It completely accords with distance principle with no crawling in the leveling. It greatly enhances the travel efficiency. |
| | | |

| | | |
|--|--|---|
|  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. |
| | 防止失速内部计数器保护 Inner counting protection | 由于钢丝绳打滑而无法正常运行时，电梯立即停止运行。 When elevator can't run due to the slipping of steel rope, elevator stopes running at once. |
| | 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 | 控制器可记录最新的20个故障，以便快速排除故障，迅速恢复电梯运行。 Controller can record the latest 20 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. |
| | 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. |
| | 门连锁保护 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. |
| | 按钮嵌入自诊断 Button inset diagnose | 若某层呼梯按钮嵌入长时间未断开，系统不再登记该层呼梯，且对应的按钮灯不断闪烁报警。 If any floor button is pressed for a long period, system won't register this floor call, and the corresponding button light will twinkle to alarm. |

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|  人机界面 Human-machine Interface | 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、楼层、开关门、故障等信息。 System can indicates running direction, floor, door state, default ect. |
| | 机房选层 Floor selection in machine room | 通过控制柜内液晶显示器的按键操作，进行内选登记。 By operation on LCD indicator in the control cabinet, car call can be registered. |
| | 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' requirement. |
| | 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' requirement. |
| | 层楼显示任意设定 Floor indication set | 可根据用户需要任意设置各楼层的显示字符（字母、数字）。 Set the indication (word or digit) for every floor. |

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|  人机界面 Human-machine Interface | 井道自学习 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. |
| | 干扰评价 Interference evaluation | 系统可对现场控制柜接地情况、井道线接地情况等作出正确评价。 System can evaluate the earthing situation of control cabinet and hoistway cable. |
| | 编码器评价 Encoder evaluation | 自动检测编码器输出脉冲质量，及评价受干扰情况。 System can evaluate the encoder output pulse and interference situation. |
| | 输入口干扰评价 Input port evaluation | 系统可对输入信号进行评价，指导作业人员合理布线、接地。 System can evaluate the input signal and conduct the electrician do the wiring and earthing properly. |

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|  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. |
| | 紧急电动运行 Emergency electric operation | 当进入紧急点动状态时，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 intercoms is realized. |
| | 警铃 Alarm bell | 紧急时，连续按下轿内操纵箱上的警铃按钮，安装于轿厢顶上的电铃会鸣响。 In emergency situation, pressing the alarm bell button on C.O.P. continuously, alarm bell on car top will ring. |

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|  节能功能 Energy Saving | 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. |
| | 定时自动开关梯 Start/stop timing | 系统按所设置开梯/关梯时间自动开梯/关梯。 System starts / stops elevator running according to the preset timing. |

选配功能 Optional function

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|  运行功能 Running Function | 防捣乱 Anti- nuisance | 当轿厢内轻载时，内选最大可登记3个，多选无效。 When elevator is of light load, the number of car call is Max. 3, more calls will be invalid. |
| | 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. |
| | 提前开门 Door open in advance | 电梯减速进入开门区域，自动开门，提高运行效率。 When elevator enters into leveling zone, it open door at once, this function improves elevator running efficiency. |
| | 再平层功能 Re-leveling function | 电梯在当前层，当过多乘客进入电梯或离开电梯时，由于钢丝绳的伸长或缩短，轿厢脱离平层区，电梯将启动低速运行至平层点。 When elevator lands to the current floor, due to elongation or shortening of steel rope induced by too many passengers entering into car or exiting from car, elevator will depart from leveling position, then elevator will start low speed running to achieve the leveling position again. |
| | 并联功能 Duplex control function | 用于两台电梯并联运行，减少乘客的候梯时间，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. |
| | 群控功能 Group control function | 用于三台至八台电梯综合控制，充分提高电梯运行效率。 This function is for 3-8 elevators' group control, it improves the running efficiency. |
| | 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. |
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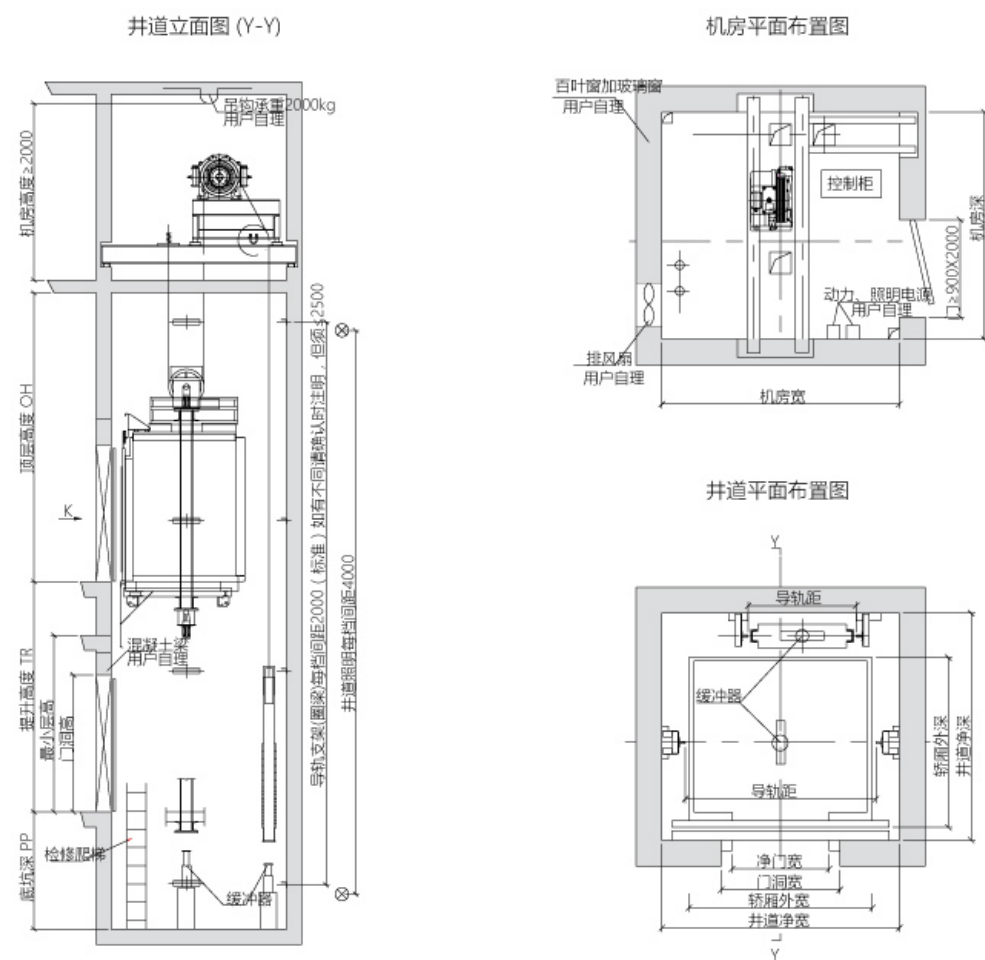
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|  人机界面 Human-machine Interface | 语音报站 Voice announcement | 在正常运行到站的情况下，利用语音装置告知乘客有关信息。 When elevator lands to the floor normally, voice announcement will advice passengers of the arrival. |
| | 背景音乐 Back ground music | 在电梯正常运行中，系统自动播放背景音乐。 When elevator runs normally, system will give out back ground music. |
| | 轿厢副操纵箱 Sub-C.O.P. | 用于候梯人群稠密大楼中的电梯，以便让轿厢内更多的乘客方便使用。 It is for building with crowded passengers, it facilitates passengers to register call. |
| | 残疾人操纵箱 C.O.P. for handicapped passengers | 让轿厢内坐轮椅的乘客及视觉障碍的乘客方便使用。 It facilitates use of handicapped passengers who take wheelchair or are visually impaired. |
| | 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. |

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|  应急功能 Emergency Function | 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，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. |
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|  监控功能 Monitor Function | 远程监控 Remote control | 通过有线或无线通讯模块，对电梯运行状态进行实时监控。 By wire or wireless communication module, system performs real-time monitoring of elevator running state. |
| | 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 |

Machine room passenger elevator
Construction sketch

小机房乘客电梯土建图

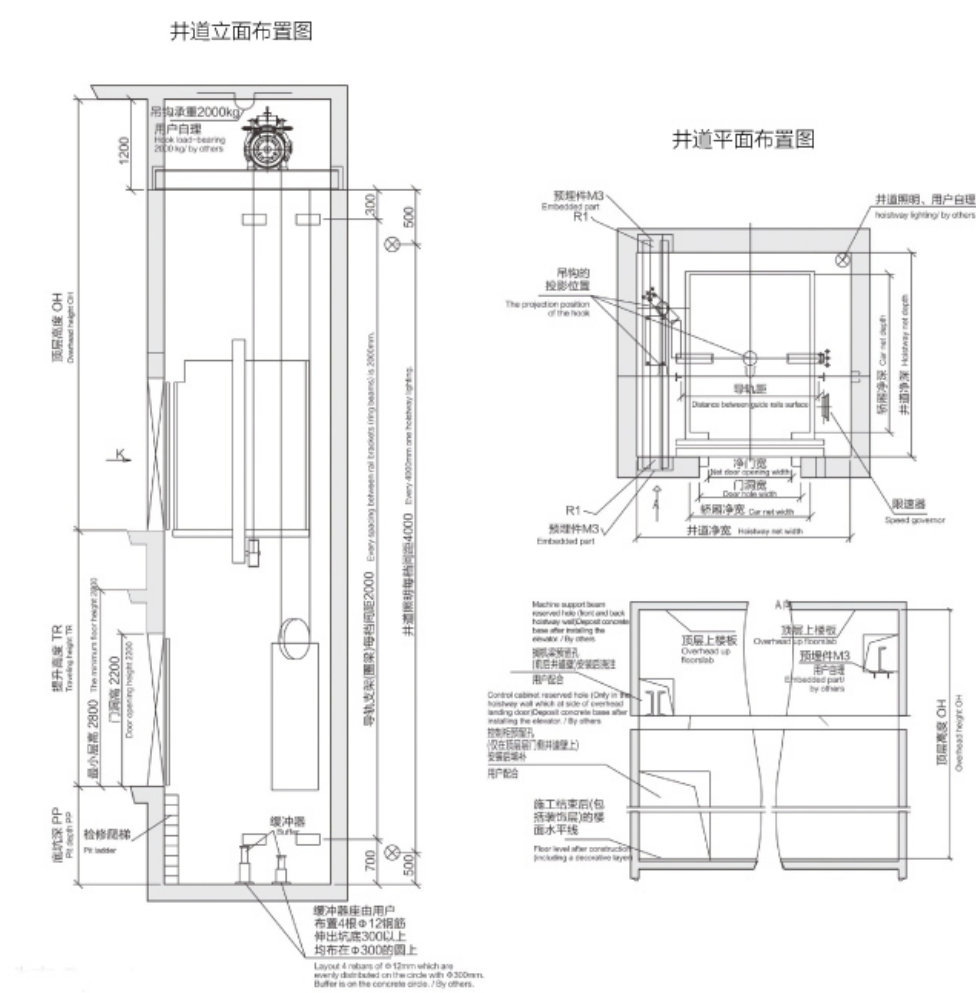


小机房乘客电梯土建参数表
Small machine room passenger elevator construction sketch specifications

| 载重 Load(kg) | 速度 Speed(m/s) | 轿厢净尺寸(宽×深) Car net size (Width × Depth) | 开门尺寸 Door opening size (mm) (Width × High) | 井道尺寸(宽×深) Hoistway size(mm) (Width × Depth) | 机房尺寸(宽×深×高) Machine room size(mm) (Width × Depth × High) | 底坑深度 Pit depth (mm) | 顶层高度 Overhead height (mm) |
|----------------|------------------|---|--|---|--|------------------------|------------------------------|
| 450 | 1.0 | 1100*1150 | 700*2100 | 1700*1800 | 1700*1800*2300 | 1500 | 4500 |
| 630 | 1.0 | 1300*1200 | 800*2100 | 1900*1900 | 1900*1900*2300 | 1500 | 4500 |
| | 1.75 | | | | | 1600 | 4600 |
| 800 | 1.0 | | 800*2100 | 2000*2100 | 2000*2100*2300 | 1500 | 4500 |
| | 1.75 | | | | | 1600 | 4600 |
| | 2.0 | | | | | 1800 | 4700 |
| | 2.5 | | | | | 2000 | 5000 |
| 1000 | 1.0 | 1600*1400 | 900*2100 | 2200*2200 | 2200*2200*2300 | 1500 | 4500 |
| | 1.75 | | | | | 1600 | 4600 |
| | 2.0 | | | | | 1800 | 4700 |
| | 2.5 | | | | | 2000 | 5000 |
| 1250 | 1.0 | 1800*1600 | 1100*2100 | 2500*2300 | 2500*2300*2500 | 1500 | 4500 |
| | 1.5 | | | | | 1600 | 4700 |
| | 1.75 | | | | | 1800 | 4800 |
| | 2.5 | | | | | 2000 | 5000 |
| 1600 | 1.0 | 1900*1800 | 1200*2100 | 2600*2500 | 2600*2500*2500 | 1500 | 4500 |
| | 1.75 | | | | | 1600 | 4700 |
| | 2.0 | | | | | 1700 | 4800 |
| | 2.5 | | | | | 2000 | 5000 |

Machine roomless passenger elevator
Construction sketch

无机房乘客电梯土建图



无机房乘客电梯土建参数表
Machine roomless passenger elevator construction sketch specifications

| 载重 Load(kg) | 速度 Speed(m/s) | 轿厢净尺寸(宽×深) Car net size (Width × Depth) | 开门尺寸 Door opening size (mm) (Width × High) | 井道尺寸(宽×深) Hoistway size (mm) (Width × Depth) | 底坑深度 Pit depth (mm) | 顶层高度 Overhead height (mm) |
|----------------|------------------|---|--|--|------------------------|------------------------------|
| 630 | 1.0 | | 800*2100 | 2100*1900 | 1600 | 4400 |
| | 1.5 | 1200*1300 | | | 1700 | 4500 |
| | 1.75 | | | | 1800 | 4600 |
| 800 | 1.0 | 1400*1350 | 800*2100 | 2300*2000 | 1600 | 4400 |
| | 1.5 | | | | 1700 | 4500 |
| | 1.75 | | | | 1800 | 4600 |
| 1000 | 1.0 | 1400*1600 | 900*2100 | 2300*2100 | 1600 | 4400 |
| | 1.5 | | | | 1700 | 4500 |
| | 1.75 | | | | 1800 | 4600 |
| 1250 | 1.0 | 1600*1800 | 1100*2100 | 2600*2400 | 1600 | 4500 |
| | 1.5 | | | | 1700 | 4700 |
| | 1.75 | | | | 1800 | 4700 |
| 1600 | 1.0 | 1700*2000 | 1200*2100 | 2800*2500 | 1600 | 4600 |
| | 1.5 | | | | 1800 | 4800 |
| | 1.75 | | | | 2000 | 5000 |

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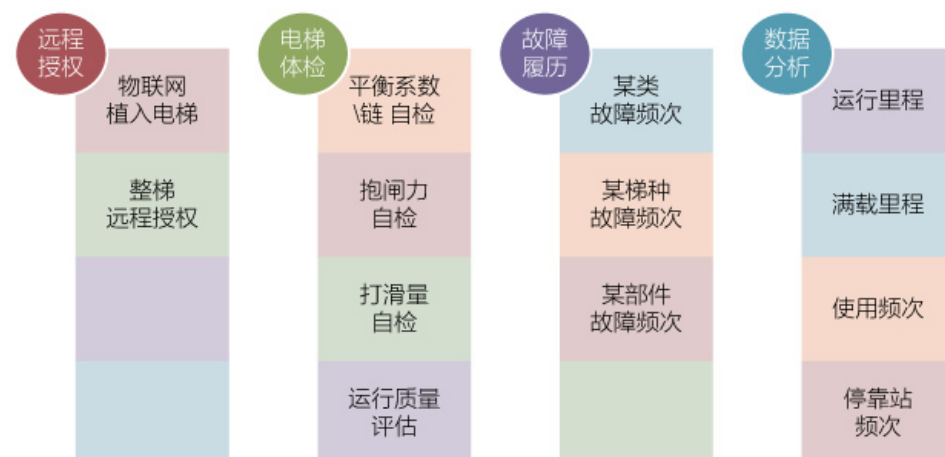
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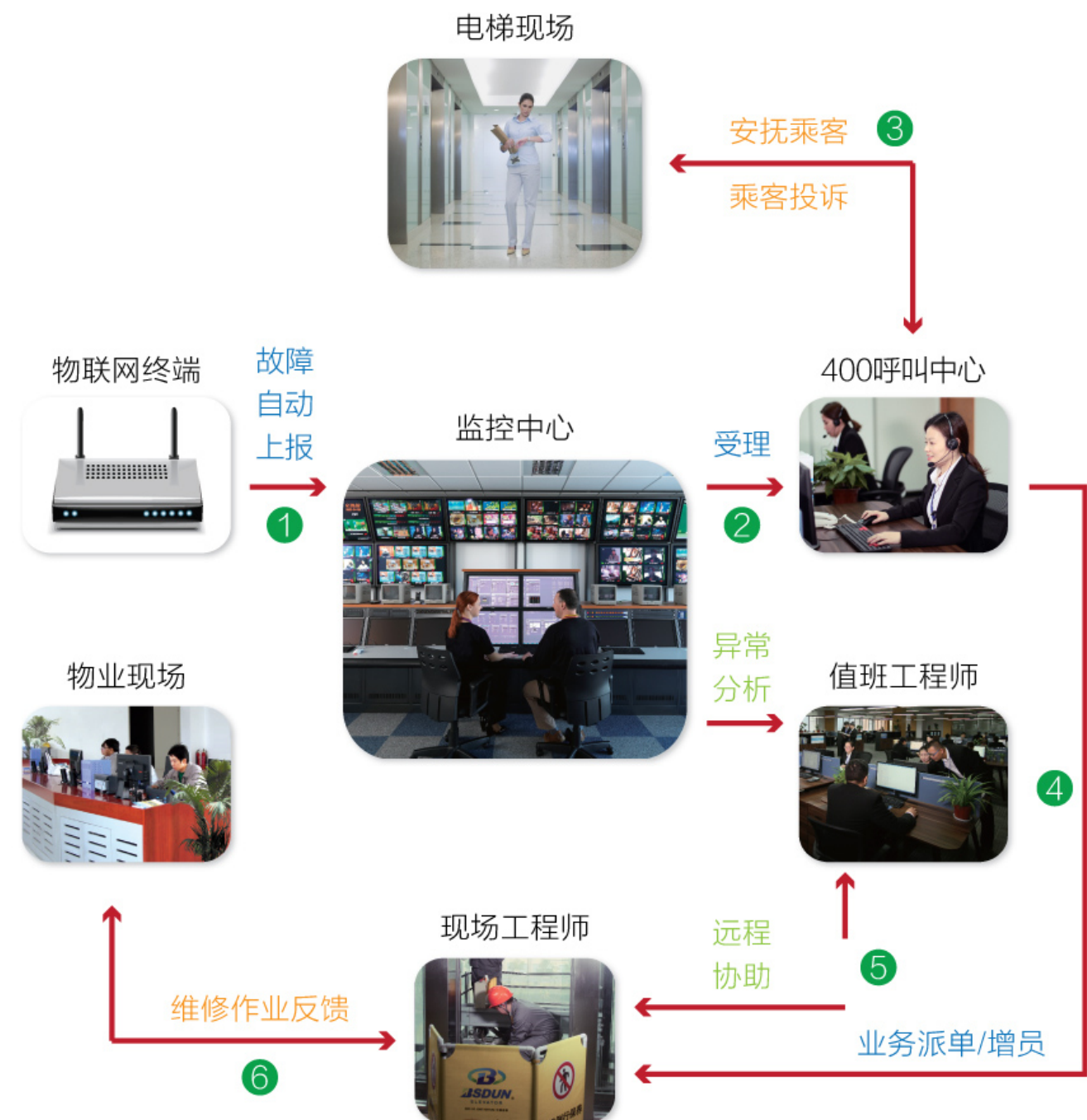
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2017年05月版

STAM 品牌标识 0675-88135580 18611515291



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