ELEVATOR

SJEC CORPORATION
A Committed, Reliable & Responsible Elevator & Escalator Manufacturer since 1992
CORPORATION DATA:
- Land area: 107000m²
- Manufacturing area: 47000m²
- Test tower height: 140m
- Manpower: 1000

ANNUAL MANUFACTURING CAPACITY:
- 15000 units elevators,
- 5000 units escalators and passenger conveyors

INTERNATIONAL CERTIFICATION:
- ISO9001, ISO14001, OHSAS18001 and SA8000 by DNV,
- DIN18000-7 by SLV Duisburg Germany,
- Product Certificate by TÜV Germany,

MARKETING:
- Products sold over 80 countries around the world. Such as Asia, Europe, Oceania, Africa, America and etc.
SJEC
Elevators & Escalators
since 1992

**E-GRIS**

With more than 20 years efforts, SJEC focus on updated technology application in high-efficiency, energy saving and green elevator and escalator.

- **E**: Economy / Easiness / energy / Enterprise / Elevator / Escalator
- **G**: Green / Growing / Environment Protection
- **R**: Regenerate / Re-create / Resource / R&D
- **I**: Information / Intellectual Process / Integrated
- **S**: System / Solution / Safety / Service

SJEC has gain a reputation both domestic and oversea for its leading technology and continual innovation idea in the world.

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1992

1992-2004, Tiger Hill facility, China
- Land area: 43000 m²
- Construction area: 21000

1995

1995-2004, Penang factory, Malaysia
- Land area: 10000 m²
- Construction area: 5000 m²

2004

2004-present, parts supply factory in SIP, China
- Land area: 31000 m²
- Construction area: 23000 m²
2009, New facility. Landing area: 57000 m², Construction area: 54000 m², Test tower height: 140 m.

2005-present, new facility in SIP, China
Land area: 50000 m² / Construction area: 35000 m²
Test tower height: 66.8 m

2008, Milan factory, Italy
Land area: 5200 m² / Construction area: 4500 m²
Drive System

All kinds of products of SJEC adopt the advanced magnetic synchronized traction machine. The traction machine has advantages of environmental protection, energy-saving, free-maintenance, safe reliability and high efficiency. It has low vibration, low noise and perfect ride comfort. The traction machine can save 30%-60% of power consumption compared to classical gear machine.

Control system

e-com control system is an epochal product of SJEC. It represents advanced technology by adopting innovative design. It is a real GREEN product; more than 100 protection design and precaution measurement guarantee ultimate SAFETY; compared with usual control system, e-com has lots of advantages;

ALL-IN-ONE design of highly integrated motor driving and logic control unit, not separated inverter and control board, reduces the middle control tache, multi CPUs share software and hardware which brings higher speed; multi CPUs monitor each other to make control more safe and reliable;
E-com offers multiple controllers to match different constructions, such as: wall-mounted controller for MRA; controller inside of hoistway for MRL; closet controller for high speed elevator;

Energy generated during braking is feed back to the power supply by the use of energy regeneration device. Compared with usual method of braking resistor, e-com saves 20~40% of power consumption;

Automatically hibernation will reduce power consumption prominently during elevator standby. Compared with elevator without this function, auto wakeup elevator saves 90% power consumption during standby;

With comprehensive EMC design scheme, e-com fully complies with EN12015, EN12016 standards, it is ‘GREEN’ electrical product with limit and acceptable electromagnetic pollution and strong electromagnetic susceptibility;

N -curve algorithm adopts distance control, it automatically calculates out possible maximum speed according to different floor distance, makes landing directly without creeping. Compared with usual control system, e-com improves 5~30% service efficiency, reduces time of waiting and riding elevator;

Brand-new pin board design can avoid mis-plug. Also the connection way of pin and plug guarantees a reliable and convenient junction;

Special technology of synchronous starting without load weighing compensation is adopted. By the using of sincos encoder, there is no need to adjust the load weighing compensation;

E-com adopts advanced earthquake monitoring detector which real-time detects P wave or S wave shaking acceleration, guarantees passengers evacuation before L wave coming which has the maximal demolition;

Surge protection will keep your equipments away from kinds of interferences caused by the energy from power wiring.
Complete Solutions

Machine Room-less (Gearless)

Load (kg)

Load (kg)

Machine Room Above (Geared)

Speed (m/s)

Speed (m/s)

Machine Room Above Gearless

Load (kg)

Load (kg)

Machine Room Above (S830)

Speed (m/s)

Speed (m/s)
Landing Door Style

In order to make the environment more beautiful, the decoration of the door and jamb is according to the building’s style.

Narrow Door Jamb (Standard)

Splayed vertical door jamb (Optional)

Splayed inclined door jamb (Optional)

Square door jamb (standard for S810 & S830-M)

(Standard)

(Optional)
Car Style

SJEQ N02
Ceiling: Hairline ST/ST + acrylic lighting + Vaulted
Car wall: hairline & etched ST/ST
Handrail: ST/ST

SJEQ Spring
Ceiling: SJEQ Spring (optional)
Car wall: Etched ST/ST + Painted Safety Steel + Glass
Floor: Artistic Ceramic (FL-301)
**JC-201**
Ceiling: painted ST/ST + acrylic lighting
Car wall: titanium mirror & etched ST/ST + titanium mirror ST/ST
Handrail: PVD Coated, mirror flat rail.
Floor: artistic ceramic

**JC-204**
Ceiling: mirror ST/ST + glass + transparency.
Car wall: mirror & etched ST/ST + painted ST/ST + painted glass
Handrail: mirror single round rail
Floor: artistic ceramic

**JC-211**
Ceiling: Mirror ST/ST + Glass + Transparency.
Car wall: Painted ST/ST + Painted Glass
Handrail: Mirror Flat Rail.
Floor: Artistic Marble

**SJEQ N16**
Ceiling: hairline ST/ST + Mirror ST/ST + acrylic decoration
Car wall: mirror ST/ST + hairline ST/ST
Handrail: stainless steel
Car Ceiling/Handrail/Indication system

TH-105 (standard):
Mirror ST/ST + Black painted steel + Acrylic resin panel
TH105B (optional):
Aluminium-filled plastic + Black painted steel + Acrylic resin panel

TH-103 (optional):
Hairline ST/ST + Acrylic resin panel

TH-401
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)

TH-402
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)

TH-403
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)

TH-404
(Optional: Hairline OR mirror ST/ST + Acrylic resin panel)

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<th>Material</th>
<th>Specification (mm)</th>
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<td>HC-001</td>
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<td>HC-002</td>
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<td>HC-102</td>
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<td>HC-104</td>
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<tr>
<td>(Optional)</td>
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</table>
Car Wall & Floor

- Car Wall Materials

Standard (painted steel)

- RAL5010
- RAL5015
- RAL6034
- RAL7035
- RAL1015

Optional

- HS-001 Hairline ST/ST
- HS-002 Mirror ST/ST
- ES-002 Etched ST/ST
- ES-003 Etched ST/ST
- ES-004 Etched ST/ST
- ES-005 Etched ST/ST

- Floor

Standard (PVC tile)

- TCD304
- TCD305
- TCD308
- TCD314
- TCD315
- TCD316
- TCD317
- TCD318

Optional

- 251-8
- 261-10
- 711-2
- 711-5
- 701A
- CP-3
- TM-7461A
- 1661-D25
- ES-2
- B-308
- B-358
- B-638
- SG3501
- Rubber floor (black)
- Rubber floor (gray)
- Checked Alu
- Checked ST.
**Indication system**

- **COB**
  
  Landing hall button and operation panel button is comfortable to feel. Dot-matrix display shows various kinds of operation information.
Display & Button

- INDICATOR

For car
- Dot-matrix LED (standard)
- Blue Segment LCD

For landing
- Dot-matrix LED(H) (standard)
- Segment LCD (H)
- TFT colored LCD (8 inch/10 inch)

Access control manager
- IC

- BUTTON

- RH-1 (Standard)
- RH-2/RH-3 (Optional)
- PB330 (Optional)
- SH-1 (Optional)
- SH-2/SH-3 (Optional)
- PB340 (Optional)

- HALL LANTERN

- DZO-2
- DZO-3
ELEVATOR Features and Functions Instruction

■ STANDARD PROTECTION

● Over voltage protection
  Once power source voltage exceeds 120%, the motor will be protected against damages.

● Phase monitoring protection
  Once power supply is short of any phase, the motor will be protected against damages.

● Motor over current protection
  Once current output to motor is over a set value, the motor will be protected against damages.

● Motor overheating protection
  Once motor winding temperature is over a set value, the motor will be protected against damages.

● Encoder fault protection
  Once encoder has fault, the motor will stop running immediately.

● Contact adherence monitoring protection
  System will monitor the contacts of contactors, if abnormal, the next running will not be allowed until the problem is resolved.

● Over speed protection
  Once lift is running under over speed, lift will be stopped by electrical control system immediately.

● Anti-reversal protection
  Once the running direction monitored by encoder is not same as actual running direction, lift will stop running immediately.

● Over running time protection
  Once one trip running time exceeds a set time (running time for one trip from lowest floor to top floor), motor power will be cut to prevent motor working under abnormal situation.

● Terminal switch protection
  Prevent the elevator from traveling beyond a terminal landing.

● Car overload protection
  When car load exceeds rated load, lift will hold stop with door open at the floor and the buzzer alarms and overload lighting illuminated.

■ STANDARD FUNCTION

● Auto-parking
  If no call during a set time, car will return to nominated main floor and wait for new calls.

● Full load no stop
  When car load exceeds 80% (adjustable) of rated load, it ignores all hall calls to avoid useless stop and increase the efficiency of transportation. These ignored calls will be registered but responded in next trip (simplex) or other lift (group control).

● Door open & close time adjustment
  Door open and close times are automatically adjusted depending on whether the call cause the door open and close is a car call or hall call or door call.

● Jammed hall button detection
  If a hall button is jammed mechanically, this hall call will be automatically bypassed after being served once, until the problem is resolved.

● Next landing
  When lift arrives at a floor but the doors can’t be fully opened, the lift will go to the nearest floor and open the door.

● Safe landing
  When lift stops at the locking door zone by fault, lift will go to the nearest floor under lower speed and open the door.

● Car emergency lighting
  When normal lighting power supply fails, car emergency lighting on COP will be illuminated by emergency power source.

● Emergency Alarm button
  When passenger trapped in car, press the button, the buzzer will alarm.

● Intercom system
  This system allows the intercommunication between car, car top and pit to machine room (controller) or supervisor’s room.

● Fault record
  Controller will record latest 11 faults information include fault code, time and floor, and it will record the details of last fault.

● Car fan shut Down control automatically
  Car fan will be shut down automatically if no more calls are registered after a set time.

● Car fan switch on COP
  Car ventilation fan could be put into or out of service by this key switch on COP. It will be cancelled when “COP Window” optional function is selected.

● Floor number setting
  Each floor display number could be set by 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, G, H, L, M, P, R.

■ ALTERNATIVE FEATURE

● Selective collective operation
  Standard: Full collective (UP & DN hall call buttons on FOB)
  Option: Down collective (DN hall call button on FOB)

● Car group control
  Standard: Simplex
  Option: a. Duplex, b. Triplex, c. Quadruplex

● Door safety device
  Standard: 2D light curtain
  Option: a. 3D light curtain, b. 2D light curtain with safety edges, c.3D light curtain with safety edges

● Hall indicator
  Standard: Dot matrix LED
  Option: a. Segment LCD, b. without indicator

● Hall indicator position
  Standard: mixed with call buttons
  Option: above door, separately (standard when EN81-70 required)

● Car indicator
  Standard: Dot matrix LED indicator

■ INTERFACE

● Remote control interface-parking shutdown
  Lift could supply an input interface (dry contact) for parking function, and user could use it to park the lift and put it out of service or put it into service.

● Remote monitor interface-4 dry contacts
  System could supply 4 dry contacts to output the basic signals of lift operation include AUTO, INSPECTION, FAULT and PARKING for remote monitoring.

● Video cable in car
  The cable is used for video camera (by others) installed in the car.
Audio cable in car
The cable is used for audio broadcaster (by others) installed on car top.

RS485 interface
1. RS485 port in control panel, can monitor:
   1) elevator travel direction, current landing,
   2) door status "open" "close",
   3) elevator status "normal", "inspection", "fire return",
   "trip", "attendant", "over load", "full load", "fire return",
   "service off", "door lock", "safe loop"
2) 1100 code
   SJECC provide a rs485 port and protocol document.

Remote monitoring system
Monitoring system based on RS485 interface. Same monitor information as RS485 interface.
SJECC provide monitoring hardware and monitoring software in PC. Cables between elevator and monitoring room and PC by customer.

Optional Function
- Car emergency exit (trap door in car roof)
  It is used to rescue the trapped passenger in car. It could be opened from outside of car without a key and inside with a triangle key.
  When this function selected, the car ceiling must be selected from TH40 series.
- Door lock circuit bypass monitoring protection
  Door locks circuit will be monitored, once it is shorted, the lift will not be possible to run under "Normal" mode
- False call canceling
  False car call could be cancelled by press the same floor button twice continuously.
- Anti-nuisance operation
  Once the registered car calls is more than the passenger numbers weighed by weighting device, the all car calls will be cancelled automatically.
- ARD (automatic rescue device)
  When power failure, lift will go to the nearest possible floor, open the door and release the passengers automatically.
- Machine brake release lever
  When power failure, the machine brake can be released by brake release lever in order to let the car go to the nearest floor.
  This function is a standard function for MRA. It's not available for S810.
- Locking door zone alarm
  When lift stops at the locking doors zone by fault and can't operate Safe Landing, the buzzer will alarm.
- Power saving device - Energy feedback
  This device will feedback the energy produced by lift system to the power supply when running in brake mode. It could save power about 30%-70% depends on different type and capacity of lift.
- COP window
  Six button switches in this window:
  a. Independent operation switch: When IND switch turns to "ON", the lift ignores all hall calls and only respond to car call, after complete the running required by the last car call, it keeps door fully open on landing.
  b. Door open holding button: The door keeps open for a set time (adjustable, maximum 1000S) after press this button.
  c. Car lighting switch: turn on/off the power supply of car lighting
  d. Car fan switch: turn on/off the power supply of car fan
  e. Attendant operation: the lift will be operated by an attendant.
  f. Non-stop running: Under attendant operation, press this button, lift will ignore hall calls and go to the nearest registered car call floor.
- False hall call canceling
  False hall call could be cancelled by press the same call button twice continuously (in 0.5S).
- Auxiliary COP
  Another COP without or with indicator in car.
- Fire return (Phase I)
  When lift receives a fire alarm signal, it will stop running and directly return to nominated floor with door fully opened and out of normal service.
  Fire alarm signal could be sent by the fire switch on nominated floor or the building fire alarm system.
  System could output a signal to building fire alarm system when car returns to main floor.
- Fireman operation (Phase II)
  When fire happened, the lift will be operated by fireman(s), operation controls follow EN81-72.
  This operation will be turn on by the triangle switch on nominated main floor.
- Parking shutdown switch
  Two positions switch on FOB of nominated floor. On "STOP" potion, all registered calls will be cancelled and the lift will go to nominated floor with door open after landing. After a set time, it will close the door and out of service. The cancelled calls will be registered on other lift (if group control). On "RUN" position, lift will turn back to service.
- Car arrival gong - on carhalls
  The audible signal informs the waiting passengers of the lift arriving and next running direction (different sound for UP and DN). The gong could be amounted on car or halls.When optional function "Voice synthesizer" is selected, this function is not needed.
- Hall lantern
  It indicates passengers waiting at a floor about the travel direction of arriving car.
- IC card device - car call authorize
  Only after register by IC card, the car call(s) could be registered. Which means passenger without IC card can't use the lift.
- IC card device - hall call authorize
  Only after register by IC card, the car call(s) could be registered. Which means passenger without IC card can't call the lift on this floor.
- Voice synthesizer
  The system provides audio information about car operation (arriving floor & running direction) to passengers. English language as standard, if other foreign language required, voice document in MP3 format should be supplied.
  This device includes the function of "arrival gone".
- Features used for handicap lift (comply with EN81-70)
  All features comply with EN81-70, but auto-door and intercom system should be supplied by others.
  a. button with tactile, Braille and sound
  b. Push button and indicator position follow EN81-70
  c. Half height mirror (safety glass) on rear side (or by others)
  d. Handrail on rear side
  e. Voice synthesizer
  f. Interface for auto-door and intercom
  All features must be selected together
- Features used for handicap lift (not follow EN81-70)
  a. Half height mirror (normal glass) on rear side
  b. Handrail(s)
  c. button with tactile, Braille and sound
  d. Handrail shape COB
  e. Voice synthesizer
  Each feature could be selected separately.
PLANNING GUIDE FOR DIMENSIONS - Deep Car - (1250kg~1600kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Car Size (CW/CD) (mm²/mm²)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size (SW/SD) (mm²/mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0, 1.5, 1.75, 2.0/2.5</td>
<td>16</td>
<td>1250</td>
<td>1400 x 1950</td>
<td>SO 1100</td>
</tr>
<tr>
<td>18</td>
<td>1350</td>
<td>1400 x 2100</td>
<td>SO 1200</td>
<td>2300 x 2550</td>
</tr>
<tr>
<td>21</td>
<td>1600</td>
<td>1400 x 2400</td>
<td></td>
<td>2300 x 2850</td>
</tr>
</tbody>
</table>

PLANNING GUIDE FOR DIMENSIONS - Wide Car - (800kg~1600kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Car Size (CW/CD) (mm²/mm²)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size (SW/SD) (mm²/mm²)</th>
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</thead>
<tbody>
<tr>
<td>1.0/1.5/1.75, 2.0/2.5</td>
<td>10</td>
<td>800</td>
<td>1400 x 1350</td>
<td>CO 900</td>
</tr>
<tr>
<td>13</td>
<td>1000</td>
<td>1600 x 1400</td>
<td>CO 1000</td>
<td>2200 x 2200</td>
</tr>
<tr>
<td>15</td>
<td>1150</td>
<td>1800 x 1400</td>
<td></td>
<td>2400 x 2200</td>
</tr>
<tr>
<td>16</td>
<td>1250</td>
<td>1950 x 1400</td>
<td>CO 1100</td>
<td>2550 x 2200</td>
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<tr>
<td>18</td>
<td>1350</td>
<td>1950 x 1500</td>
<td></td>
<td>2550 x 2300</td>
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<td>21</td>
<td>1600</td>
<td>1950 x 1700</td>
<td></td>
<td>2550 x 2500</td>
</tr>
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PLANNING GUIDE FOR DIMENSIONS - Deep Car - (800kg-1600kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity Person</th>
<th>Load (kg)</th>
<th>Car Size CW*CD(mm²/mm)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size SW*SD(mm²/mm)</th>
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</thead>
<tbody>
<tr>
<td>1.0/1.5</td>
<td>10</td>
<td>800</td>
<td>1100 × 1700</td>
<td>CO 800</td>
<td>1950 × 2150</td>
</tr>
<tr>
<td>1.75</td>
<td>13</td>
<td>1000</td>
<td>1100 × 2100</td>
<td></td>
<td>1550 × 2550</td>
</tr>
<tr>
<td>1.0</td>
<td>15</td>
<td>1150</td>
<td>1400 × 1800</td>
<td></td>
<td>2300 × 2200</td>
</tr>
<tr>
<td>1.5</td>
<td>16</td>
<td>1250</td>
<td>1400 × 1950</td>
<td></td>
<td>2300 × 2400</td>
</tr>
<tr>
<td></td>
<td>21</td>
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<td></td>
<td>24</td>
<td>1600</td>
<td>1400 × 2400</td>
<td></td>
<td>2300 × 2850</td>
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PLANNING GUIDE FOR DIMENSIONS - Wide Car - (450kg-1600kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity Person</th>
<th>Load (kg)</th>
<th>Car Size CW*CD(mm²/mm)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size SW*SD(mm²/mm)</th>
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<tr>
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<td>1100 × 1100</td>
<td>CO 700</td>
<td>1550 × 1700</td>
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<td>1850 × 1450</td>
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<tr>
<td>1.0</td>
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<td>630</td>
<td>1400 × 1100</td>
<td>CO 800</td>
<td>1850 × 1700</td>
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<tr>
<td>1.5</td>
<td>10</td>
<td>800</td>
<td>1400 × 1350</td>
<td>CO 800</td>
<td>1850 × 1950</td>
</tr>
<tr>
<td>1.75</td>
<td>13</td>
<td>1000</td>
<td>1600 × 1400</td>
<td>CO 900</td>
<td>2000 × 1950</td>
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<tr>
<td>1.0</td>
<td>15</td>
<td>1150</td>
<td>1600 × 1400</td>
<td>CO 900</td>
<td>2050 × 2000</td>
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<tr>
<td>1.5</td>
<td>16</td>
<td>1250</td>
<td>1950 × 1400</td>
<td>CO 1000</td>
<td>2200 × 2000</td>
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<tr>
<td>1.75</td>
<td>18</td>
<td>1350</td>
<td>1950 × 1500</td>
<td></td>
<td>2550 × 2200</td>
</tr>
<tr>
<td>1.0</td>
<td>21</td>
<td>1600</td>
<td>1950 × 1700</td>
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<td>2550 × 2400</td>
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HOISTWAY ELEVATION

MACHINE ROOM PLAN

HOISTWAY PLAN

PLANNING GUIDE FOR DIMENSIONS - Wide Car - (450kg~630kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Load (kg)</th>
<th>Car Size CW<em>CD (mm</em>mm)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size HW<em>HD (mm</em>mm)</th>
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</thead>
<tbody>
<tr>
<td>1.0</td>
<td>6</td>
<td>450</td>
<td>1400 x 850</td>
<td>CO 800</td>
<td>1850 x 1450</td>
</tr>
<tr>
<td>1.5</td>
<td>8</td>
<td>630</td>
<td>1400 x 1100</td>
<td>CO 800</td>
<td>1850 x 1700</td>
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</table>

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door height (mm)</th>
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<td>1.0</td>
<td>4300</td>
<td>1300</td>
<td>2200 with false ceiling</td>
<td>2100</td>
</tr>
<tr>
<td>1.5</td>
<td>4400</td>
<td>1400</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We reserve the right to alter some of specifications and descriptions given here in without prior notice.
**LAYOUT - S820 (above 1000kg) MRL & S830-L MMR (1150-2000kg)**

**PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT for S830-L**

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>3850</td>
<td>1650</td>
<td></td>
<td>2100</td>
</tr>
<tr>
<td>1.5</td>
<td>4000</td>
<td>1750</td>
<td>2200 with false ceiling</td>
<td></td>
</tr>
<tr>
<td>1.75</td>
<td>4050</td>
<td>1800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT for S820**

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>4300</td>
<td>1650</td>
<td></td>
<td>2100</td>
</tr>
<tr>
<td>1.5</td>
<td>4450</td>
<td>1750</td>
<td>2200 with false ceiling</td>
<td></td>
</tr>
<tr>
<td>1.75</td>
<td>4500</td>
<td>1800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** For 2000kg, Min. OH should increase by 200mm based on the table above.

**PLANNING GUIDE FOR DIMENSIONS - Deep Car (1150kg–2000kg)**

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Car Size</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>15</td>
<td>1150</td>
<td>1400 x 1600</td>
<td>CO 900</td>
</tr>
<tr>
<td>1.5</td>
<td>16</td>
<td>1250</td>
<td>1400 x 1950</td>
<td>2500 x 2250</td>
</tr>
<tr>
<td>1.75</td>
<td>18</td>
<td>1350</td>
<td>1400 x 2100</td>
<td>2500 x 2550</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>1600</td>
<td>1400 x 2400</td>
<td>2500 x 2850</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>2000</td>
<td>1600 x 2500</td>
<td>2700 x 2950</td>
</tr>
</tbody>
</table>

**PLANNING GUIDE FOR DIMENSIONS - Wide Car (1150kg–2000kg)**

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Car Size</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>15</td>
<td>1150</td>
<td>1800 x 1400</td>
<td>CO 1100</td>
</tr>
<tr>
<td>1.5</td>
<td>16</td>
<td>1250</td>
<td>1950 x 1400</td>
<td>3050 x 1850</td>
</tr>
<tr>
<td>1.75</td>
<td>18</td>
<td>1350</td>
<td>1950 x 1500</td>
<td>3050 x 1950</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>1600</td>
<td>1950 x 1700</td>
<td>3050 x 2150</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>2000</td>
<td>1950 x 2100</td>
<td>3050 x 2550</td>
</tr>
</tbody>
</table>

**NOTE:** For S830-L, up to 1350kg, HW is 50mm less than the value in above table.

We reserve the right to alter some of specifications and descriptions given here in without prior notices.
PLANNING GUIDE FOR DIMENSIONS - Deep Car - (320kg~630kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Load(kg)</th>
<th>Car Size (CW/CD mm²/mm)</th>
<th>Door Open(mm)</th>
<th>Hoistway Size (HW/HD mm²/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.63</td>
<td>Person</td>
<td>320</td>
<td>850 × 1050</td>
<td>SO 800</td>
<td>1500 × 1450</td>
</tr>
<tr>
<td>1.0</td>
<td>4</td>
<td>400</td>
<td>850 × 1250</td>
<td>SO 800</td>
<td>1500 × 1650</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>450</td>
<td>1000 × 1350</td>
<td>SO 800</td>
<td>1650 × 1650</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>480</td>
<td>1000 × 1400</td>
<td>SO 800</td>
<td>1650 × 1700</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>500</td>
<td>1000 × 1400</td>
<td>SO 900</td>
<td>1650 × 1750</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>525</td>
<td>1000 × 1400</td>
<td>SO 900</td>
<td>1650 × 1800</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>630</td>
<td>1100 × 1400</td>
<td></td>
<td>1750 × 1800</td>
</tr>
</tbody>
</table>

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.63/1.0</td>
<td>3500</td>
<td>1300</td>
<td>2100 without false ceiling</td>
<td>2000</td>
</tr>
</tbody>
</table>

We reserve the right to alter some specifications and descriptions given here in without prior notices.
LAYOUT - S810-M MRL (450-675kg)

HOISTWAY ELEVATION

HOISTWAY PLAN
(Top landing)

HOISTWAY PLAN
(Other landings)

SINGLE OPENING

<table>
<thead>
<tr>
<th>Product type</th>
<th>Capacity Load(kg)</th>
<th>Speed (m/s)</th>
<th>Car size (width<em>depth) (mm</em>mm)</th>
<th>Min. Shaft (width<em>depth) (mm</em>mm)</th>
<th>Max. Shaft (width<em>depth) (mm</em>mm)</th>
<th>Overhead Height(mm)</th>
<th>Pit Depth(mm)</th>
<th>Max. Pit Depth(mm)</th>
<th>Open Width(mm)</th>
<th>Max. Traveling Height(m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M0450D10S-TL</td>
<td>450</td>
<td>1</td>
<td>1000*1250</td>
<td>1500*1600</td>
<td>1730*1900</td>
<td>3500</td>
<td>1200</td>
<td>1600</td>
<td>800</td>
<td>45</td>
</tr>
<tr>
<td>M0450D10S-TR</td>
<td>480</td>
<td>1</td>
<td>1000*1300</td>
<td>1500*1650</td>
<td>1730*1950</td>
<td>3500</td>
<td>1200</td>
<td>1600</td>
<td>800</td>
<td>45</td>
</tr>
<tr>
<td>M0630D10S-TL</td>
<td>630</td>
<td>1</td>
<td>1100*1400</td>
<td>1600*1750</td>
<td>1830*2100</td>
<td>3500</td>
<td>1200</td>
<td>1600</td>
<td>900</td>
<td>45</td>
</tr>
<tr>
<td>M0630D10S-TR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THROUGH OPENING

<table>
<thead>
<tr>
<th>Product type</th>
<th>Capacity Load(kg)</th>
<th>Speed (m/s)</th>
<th>Car size (width<em>depth) (mm</em>mm)</th>
<th>Min. Shaft (width<em>depth) (mm</em>mm)</th>
<th>Max. Shaft (width<em>depth) (mm</em>mm)</th>
<th>Overhead Height(mm)</th>
<th>Pit Depth(mm)</th>
<th>Max. Pit Depth(mm)</th>
<th>Open Width(mm)</th>
<th>Max. Traveling Height(m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M0480D10R-TL</td>
<td>480</td>
<td>1</td>
<td>1000*1250</td>
<td>1500*1790</td>
<td>1730*1790</td>
<td>3600</td>
<td>1200</td>
<td>1600</td>
<td>800</td>
<td>45</td>
</tr>
<tr>
<td>M0480D10R-TR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M0675D10R-TL</td>
<td>675</td>
<td>1</td>
<td>1100*1400</td>
<td>1600*1940</td>
<td>1830*1940</td>
<td>3600</td>
<td>1200</td>
<td>1600</td>
<td>900</td>
<td>45</td>
</tr>
<tr>
<td>M0675D10R-TR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: the OH is on condition of CH=2100mm.

We reserve the right to alter some of specifications and descriptions given here in without prior notices.
LAYOUT - S100MRL & S100MMR (2000-4000kg)

S100MRL - HOISTWAY ELEVATION - S100MMR

PLANNING GUIDE FOR DIMENSIONS - (2000kg~4000kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity Load(kg)</th>
<th>Car Size CW*CD(mm/mm)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size HW*HD(mm/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>2000</td>
<td>1500 × 2700</td>
<td>CO1900, 4 panels</td>
<td>2850 × 3250</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>1700 × 3300</td>
<td>CO1700, 4 panels</td>
<td>3250 × 3850</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>2200 × 3300</td>
<td>CO2200, 4 panels</td>
<td>3850 × 3850</td>
</tr>
</tbody>
</table>

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT - S100 MRL

<table>
<thead>
<tr>
<th>Capacity Load(kg)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>4500</td>
<td>1700</td>
<td>2200 without false ceiling</td>
<td>2100</td>
</tr>
<tr>
<td>3000</td>
<td>4600</td>
<td>1700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td>4600</td>
<td>1700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT - S100 MMR

<table>
<thead>
<tr>
<th>Capacity Load(kg)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>4400</td>
<td>1700</td>
<td>2200 without false ceiling</td>
<td>2100</td>
</tr>
<tr>
<td>3000</td>
<td>4500</td>
<td>1700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td>4500</td>
<td>1700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES: 1. HD shall be 50mm more than the value in above table when through opening. 2. Forklift is not allowed to enter into the car.

We reserve the right to alter some of specifications and descriptions given here in without prior notices.
PLANNING GUIDE FOR DIMENSIONS - (2000kg–5000kg)

<table>
<thead>
<tr>
<th>Speed (m/s)</th>
<th>Capacity Load (kg)</th>
<th>Car Size CW*CD (mm²/mm)</th>
<th>Door Opening (mm)</th>
<th>Hoistway Size HW*HD (mm²/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5/1.0</td>
<td>2000</td>
<td>1700 × 2400</td>
<td>C01700, 4 panels</td>
<td>3000 × 2950</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>2000 × 2800</td>
<td>C02000, 4 panels</td>
<td>3400 × 3350</td>
</tr>
<tr>
<td></td>
<td>3500</td>
<td>2200 × 3000</td>
<td>C02200, 4 panels</td>
<td>3700 × 3550</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>2000 × 3600</td>
<td>C02000, 4 panels</td>
<td>3400 × 4150</td>
</tr>
<tr>
<td></td>
<td>5000</td>
<td>2400 × 3600</td>
<td>C02400, 4 panels</td>
<td>4000 × 4150</td>
</tr>
</tbody>
</table>

PLANNING GUIDE FOR DIMENSIONS - Min. OH and PIT

<table>
<thead>
<tr>
<th>Capacity Load (kg)</th>
<th>OH (mm)</th>
<th>PIT (mm)</th>
<th>Car Clear Height (mm)</th>
<th>Door Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>4500</td>
<td>1400</td>
<td>2200 without false ceiling</td>
<td>2100</td>
</tr>
<tr>
<td></td>
<td>4800(1.0m/s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000/3500</td>
<td>4600</td>
<td>1500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td>4800</td>
<td>1600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5000</td>
<td>6000</td>
<td>1600</td>
<td>2400 without false ceiling</td>
<td>2300</td>
</tr>
</tbody>
</table>

NOTES:
1. HD shall be 50mm more than the value in above table when through opening.
2. Only 5000kg design calculation take into account the load of forklift enter into the car for handling the goods.

We reserve the right to alter some of specifications and descriptions given here in without prior notices.
Projects Highlight

Odintsovo Shopping Center, Russia

Lous Arslan, Armenia

Pelican Hill Residence, Turkey

MATZLAWI BUILDING, Israel

ZON TEKNOLOGI KKN EMBASSY, Malaysia

Diamond Plaza, Myanmar

Harris Hotel-Bali, Indonesia

Punki Husene Office building, Denmark

Lotus Business Center, India

DB City, Bhopal, India
Projects Highlight

Sorya Mall, Cambodia.

Caraes Marietla airport, Venezuela.

Art School, Singapore.

Mekong Condo, Cambodia.

Jakarta CBD Ciledug, Indonesia.

Chennai train station, India.

Chennai airport, India.

House of Fraser Shopping Mall, England.

UMEA travel center, Sweden.

Krabi Airport, Thailand.