

SUPERIOR
ELEVATORS



BELT TRACTION VILLA ELEVATOR

Load: 180、280、320、400、480kg

Speed: 0.3、0.4、0.63m/s

The steel belt traction machine designed specifically for home elevators is technologically advanced compared to traditional gearless traction machines, offering reliable performance and clear advantages:

1. High efficiency and energy saving: Operating power of 1.1KW.
2. The steel belt rolls silently against the traction wheel and car bottom wheel, reducing noise interference.
3. The steel belt has a fatigue life of 20 million cycles and has passed tensile strength tests, outperforming traditional steel ropes, verified by international TUV testing.
4. The traction machine and brake have passed type tests equivalent to national traction machine standards, with testing commissioned by national elevator inspection agencies and CE certification from Rhine TUV.
5. With independent intellectual property rights and leading technology, we hold multiple invention and utility model patents, making us a leading domestic brand supplier of steel belt traction elevators.



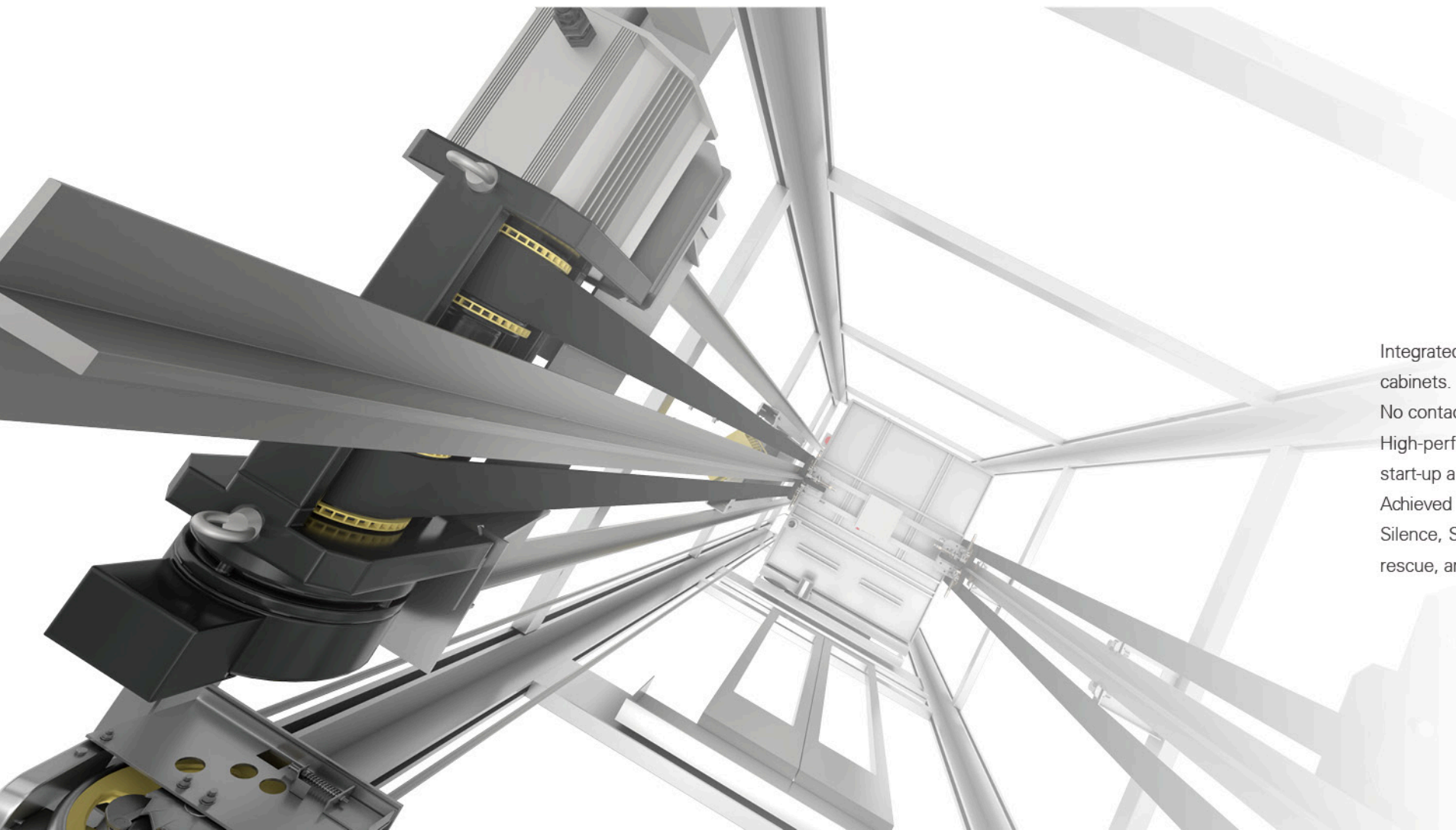
Steel belt traction machine

The steel belt machine has a compact structure, with a smaller sheave diameter and volume.

The reverse sheave diameter is small, allowing installation in the car top or under the car beam.

The non-rigid contact between the steel belt and sheave results in lower noise and enhanced comfort.

The sheave diameter of the steel belt machine is significantly smaller than that of traditional sheaves, with the main machine's efficiency being 15%-20% higher than similar motors, leading to greater energy savings.



cabinet

Integrated design, deep integration with a control cabinet volume only 30% of traditional control cabinets.

No contactor application and fanless design, with control cabinet noise levels below 40 decibels.

High-performance drive platform with innovative algorithms, thoroughly addressing elevator start-up and operational comfort issues.

Achieved TUV and Sil3 safety level international certification; unique "5S" design concept: Small, Silence, Save, Safe, Smart; equipped with intelligent automatic rescue, power failure automatic rescue, and one-button rescue for multiple safety guarantees.

NON-STANDARD SIZE TAILOR-MADE

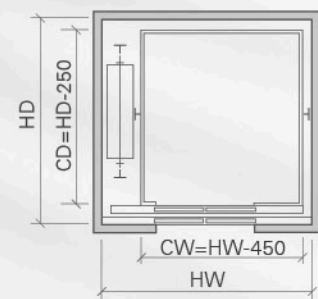
Various door opening methods can be designed according to user layout and needs.

Pit Depth: 80mm (car top wheel), 150mm (car bottom wheel), 200mm (backpack frame).

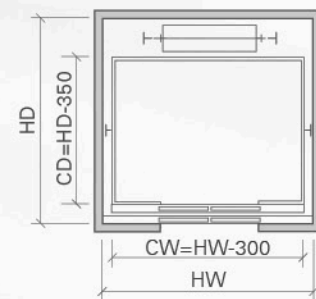
Top Floor Height: 2700mm (car top wheel), 2500mm (car bottom wheel), 2900mm (counterweight behind the gantry, backpack frame with right-angle door).

The dimensions shown are for reference only; specifics are subject to design.

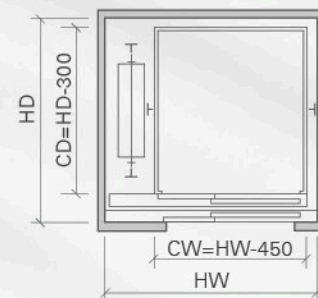
Center-opening door



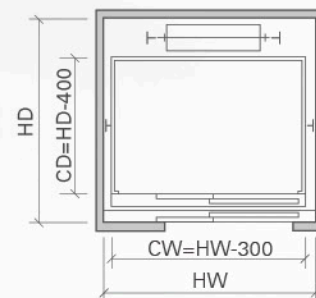
Center-opening door



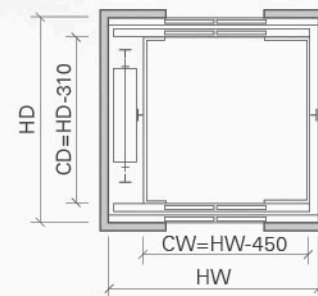
Side-opening door



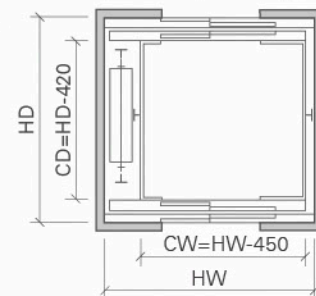
Side-opening door



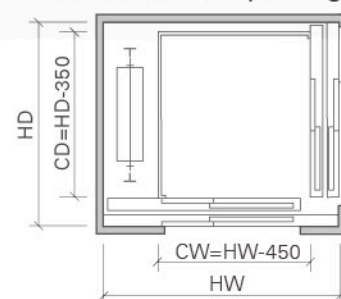
Opposite opening door
(Center-opening)



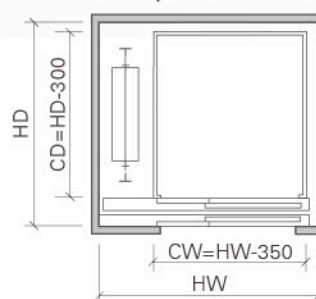
Opposite opening door
(Side-opening)



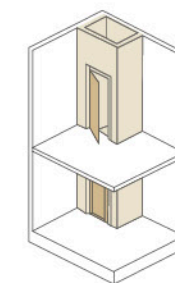
*Right-angle door for backpack
frame (Side-opening)



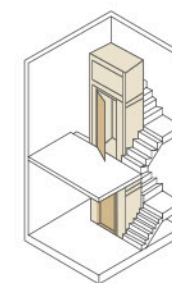
*Side-opening for
backpack frame



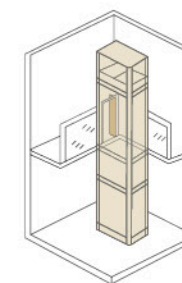
ALUMINUM SHAFT / TOWER (OPTION)
CLIENT / BUILDER CAN ENCLOSE WITH PLASTER OR CLADDING
OPTIONAL GLASS INFILL PANELS AVAILABLE.



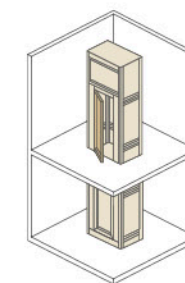
Concrete shaft



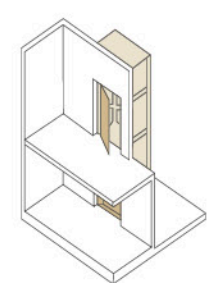
Around the stairs



Spacious hall



Opening at the floor



Installed outdoors



SUPERIOR
ELEVATORS

CAR DECORATION

ZV-C01 (Standard)

- Ceiling: Aluminum alloy fine frame
+LED light +LED light strip
- Rear wall: Mirror stainless steel
- Side wall: Vibration stainless steel
- Front wall: Vibration stainless steel
- Floor: PVC



Cabin 360
panoramic view



This illustration is for reference only and may differ slightly from the final product.

CAR DECORATION

ZV-C02 (Optional)

- Ceiling: White carbon aluminum panel with linear light strips on both sides
- Rear wall: antique copper and textured stainless steel on both sides, rock slab in the middle, hidden LED light strip
- Side wall: antique copper vibration stainless steel
- Front wall: antique copper vibration stainless steel
- Handrail: Aluminum alloy round handrail
- Floor: PVC or rock board



Cabin 360
panoramic view



CAR DECORATION

ZV-C03 (Optional)

- Ceiling: Aluminum alloy fine frame+white decorative panel + Middle LED downlight, hidden light strips around
- Rear wall: Cloth patterned decorative panel, black titanium stainless steel embedded strip
- Side wall: Cloth patterned decorative panel, black titanium stainless steel embedded strip
- Front wall: Champagne gold and textured stainless steel
- Floor: PVC or rock board



Cabin 360
panoramic view



CAR DECORATION

ZV-C04 (Optional)

- Ceiling: White carbon aluminum panel + hidden linear light strip+LED downlight
- Rear wall: Wood grain decorative panel, mirror stainless steel
- Side wall: Wood grain decorative panel
- Front wall: Vibration stainless steel
- Handrail: Flat black titanium handrail
- Floor: PVC or rock board



Cabin 360
panoramic view



CAR DECORATION

ZV-C05 (Optional)

- Ceiling: Wood grain finish panel spliced with cloud white finish panel +Linear light strip+LED downlight
- Rear wall: Wood grain finish panel spliced with cloud white finish panel, hidden light strip, black stainless steel inlay
- Left side wall: Cloud white finish panel
- Right side wall: Wood grain decorative panel
- Front wall: Black titanium vibration stainless steel
- Floor: PVC or rock board



Cabin 360
panoramic view



CAR DECORATION

ZV-C06 (Optional)

- Ceiling: Aluminum alloy frame
+ white carbon aluminum panel
+ hidden LED linear light
- Rear wall: Cloth patterned decorative panel,
art glass in the middle,
hidden LED linear light
- Side wall: Wood grain decorative panel
- Front wall: Antique copper vibration stainless steel
- Floor: PVC or rock board



Cabin 360
panoramic view



CAR DECORATION

ZV-C07 (Optional)

- Ceiling: Wooden decorative ceiling,
LED downlight, middle return light strip
- Rear wall: Wooden decorative panel, with a
brown mirror stainless steel on
the middle half
- Side wall: Wooden decorative panel
- Front wall: Champagne gold vibration stainless steel
- Floor: Solid wood flooring or marble



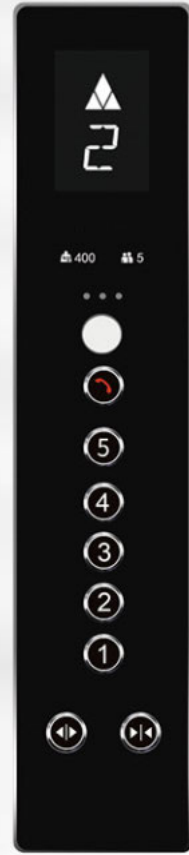
Cabin 360
panoramic view



COP



ZCOP-01
(Standard)
Vibration stainless
steel panel



ZCOP-02
(Standard)
Glass panel



ZCOP-05/06
(Optional)
Intelligent touch screen



ZCOP-07
(Optional)
Glass panel button type (horizontal)

HOP



ZCOP-08
(Optional)
Fullheight control box

LANDING DOOR (OPTIONAL)

SWING DOOR OPTIONS



ZV-M001
Vibration stainless steel



ZV-M002
Titanium gold vibration stainless steel



ZV-M003
Rose gold vibration stainless steel



ZV-M004
Champagne gold vibration stainless steel



ZV-M005
Antique copper vibration stainless steel



ZV-M006
Black titanium vibration stainless steel



FUNCTION TABLE

 General protection

- Door closing time protection

Car emergency lighting

Limit switch protection

Light curtain protection device

Emergency electric operation on car top and control cabinet

Fault automatic diagnosis

Alarm bell

Bottom buffer device

Door cannot be opened outside door zone

Brake monitoring protection
- Operation contactor protection

Grid voltage fluctuation detection

Drive equipment overheating protection (OHT)

Electric brake release

Automatic Rescue Device (ARD) for power-off leveling

One-touch dialing

- Contactor feedback monitoring
- Relay inspection protection
- Speed feedback monitoring
- Reverse operation protection
- External call button embedded self-diagnosis
- Low-speed self-rescue in case of fault
- Anti-slip protection
- Safety circuit protection
- Overload prevention (Warning light and buzzer)
- Upper and lower limit protection device
- Door interlock protection

 Steady running

- Automatic return to base station
- Collective selective control
- Standby floor setting
- Automatic open and close door
- Pre-torque output
- Non-stop full-load operation
- Hoistway self-learning
- End station for speed and floor number correction
- Stopping

 Information display

- Hall digital position indicator
- Car digital position indicator
- Car direction indicator
- Customizable floor display characters
- Hall and car call/register
- Trip counter display
- Hall direction indicator

 Comfortable ride

- Hall and car door timing (automatic door)
- Open and close door button (automatic door)
- Automatic ventilation and lighting control in car
- Hall button calls door opening (automatic door)
- Non-stop floor setting
- Repeated door closing (automatic door)
- Manual floor selection
- Mistaken floor selection cancellation

 Security monitoring

- ★ Intercom from monitor room to machine room, car (Exclude machine room wired to monitor room)
- ★ CCTV cable (From car to machine room)
- Elevator remote monitor
- ★ BA interface (Dry contact)
- ★ Card reader

★ Voice floor announcement

Note: ★ is optional function