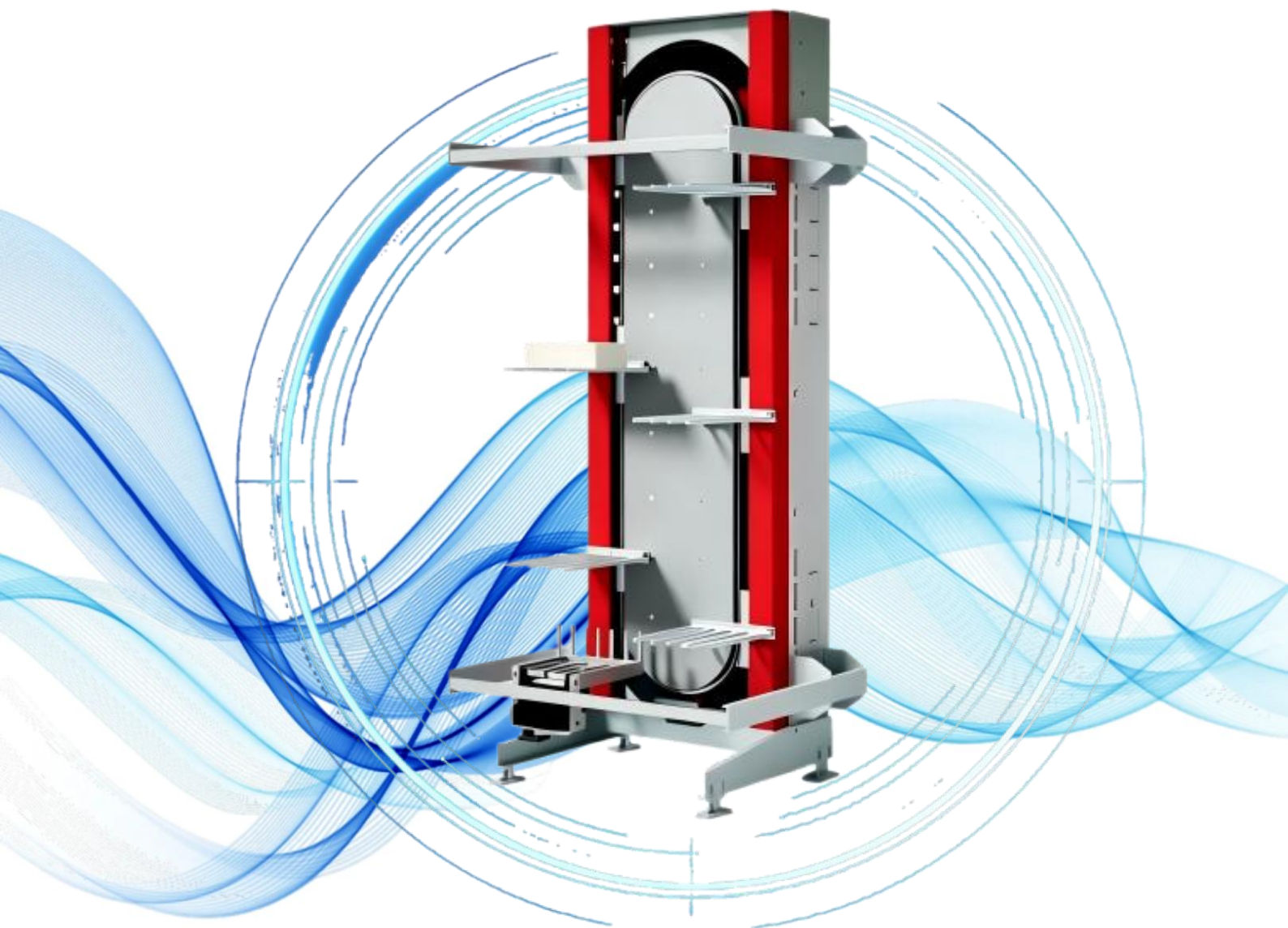


Conveyor system supplier

Dongguan Jichi Intelligent Equipment Co., Ltd.

Non-standard equipment



Professional | Customized | Efficient | Non special equipment

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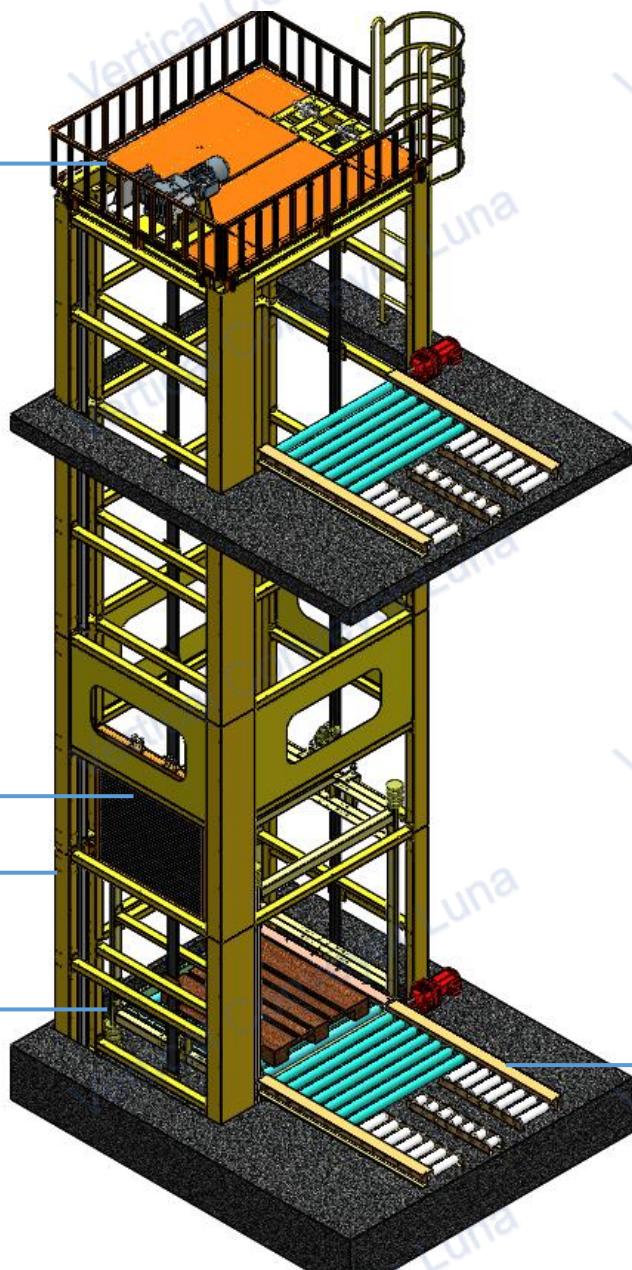
Drive unit
动力机构

Load capacity
配重

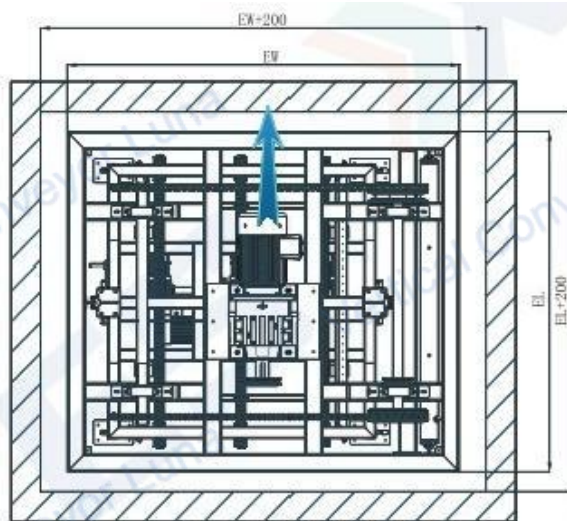
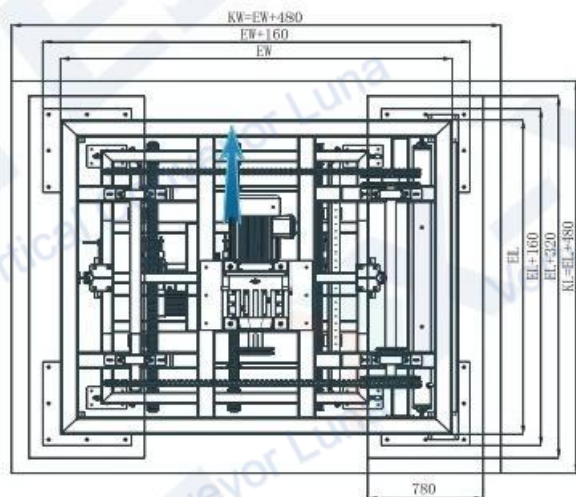
Frame
框架

Elevator car
轿厢

Transfer section
接驳段



Floor opening size



Reciprocating vertical conveyor

- A chain-driven vertical lift with variable frequency speed control.

The elevator car, equipped with a transmission mechanism, automatically receives goods from connecting conveyors.

Features: Advanced control, Reliable performance, Precise positioning

- Applications:

Logistics warehousing, intelligent manufacturing, distribution centers.

Easily integrated with conveyors and control systems for multi-floor pallet transportation.

- Main Structure & Features

- Frame: The vertical conveyor adopts a four-column frame structure, connected by top beams. The drive unit is located at the top of the lift.
- Lifting Platform: The lifting platform is connected to the main frame via lifting chains and guided by guide rollers and guide rails.
- The other end of the lifting chain is connected to a counterweight block. The frame is welded and precision-machined, ensuring a stable structure that is not easily deformed.



*Maintenance ladder: for safe and convenient maintenance. This conveyor is equipped with a professional cage type maintenance ladder



- Surface sealing treatment: steel plate type, mesh type, acrylic plate



Steel mesh



acrylic sheet



Steel plate closure

Security protection :

●**Mechanical protection:** The top and bottom of the vertical conveyor will be equipped with mechanical buffers with buffering devices to ensure a certain buffering function when the cargo platform falls due to electrical failure or other mechanical faults

●**Overload detection:** When the motor is overloaded, the thermal relay and frequency converter will stop working, effectively protecting the motor.

●**Chain Breakage Detection**

- 4 lifting chains used; single chain break does not cause load drop.
- Each chain has independent break detection.
- On breakage or loosening:
- Spring mechanism triggers detection plate
- Signal sent to motor → brake engaged
- Fault message displayed on main or sub HMI (touchscreen)



●**Safety warning:** In addition to pasting warning signs, safety fences will also be installed around the conveyor to prevent unauthorized personnel from approaching the vertical conveyor.

●**Surface coating:** The components are rust removed by wire brushing, sandpaper, etc, acid washed to remove grease, phosphated, and then electrostatically sprayed with epoxy resin powder and baked to a resin thickness of 60 μm -90 μm .

● Continuous Vertical Conveyor

A device that lifts or lowers materials using an endless belt or chain in continuous circulation.

Main Components: Transmission system, Lifting system, Conveying system, Electrical control system, Frame.

● Types:

- Z-type – Inlet and outlet on opposite sides
- C-type – Inlet and outlet on the same side

● Applications:

Widely used in logistics warehousing, manufacturing, medical, and other automated production lines to connect material handling between different floors or heights.

Characteristics of continuous vertical conveyor

1. Efficient and stable

The endless loop design ensures efficient and stable transportation with minimal downtime.

★Maximum speed: 15 pieces/minute

2. Wide applicability

Compatible with various belts and chains, used for handling various solid materials.

3. Simple and reliable

Mature technology, safe operation, Low maintenance and operation costs.

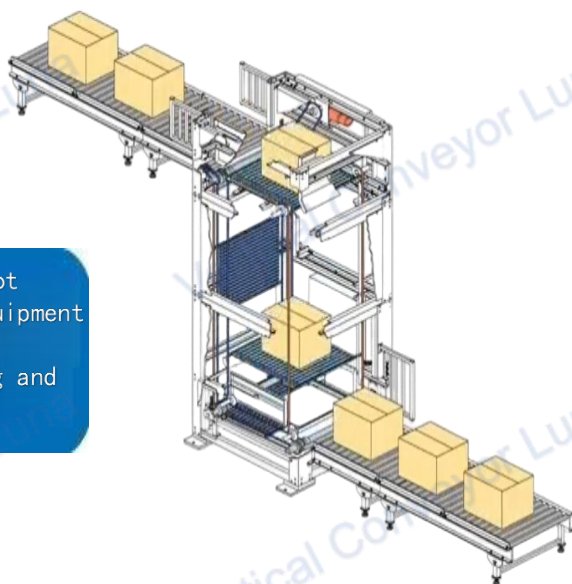
4. Unmanned control and intelligence

Integrate with the conveyor line to achieve fully automated operation.

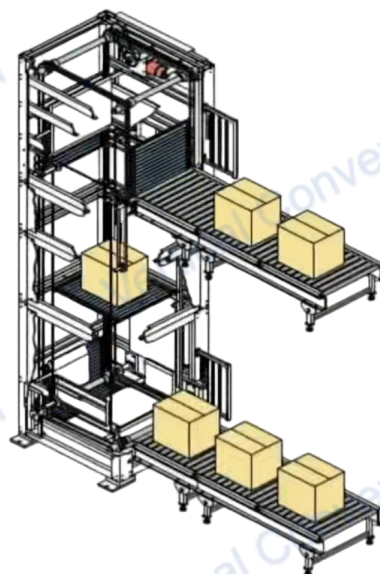
Support one-way transmission or separate up and down use.

★This device does not belong to special equipment

No need for reporting and annual inspection



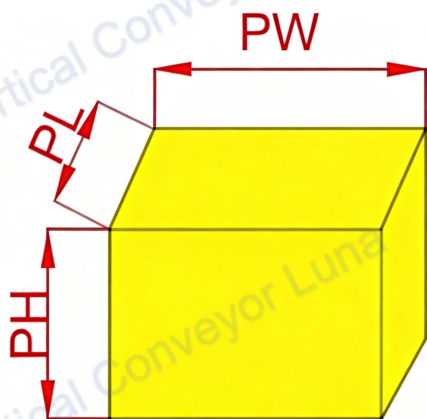
Z-Type



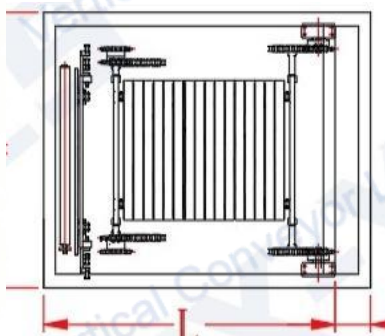
C-Type

Attention: Personnel are prohibited from approaching during equipment operation, and safety fences must be set up.

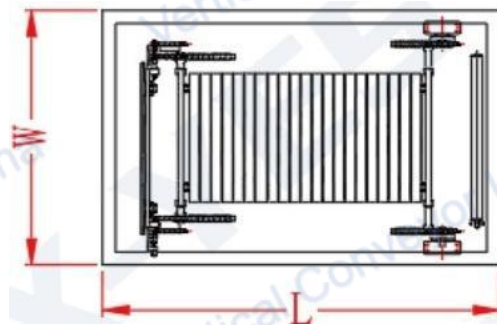
Self service size selection



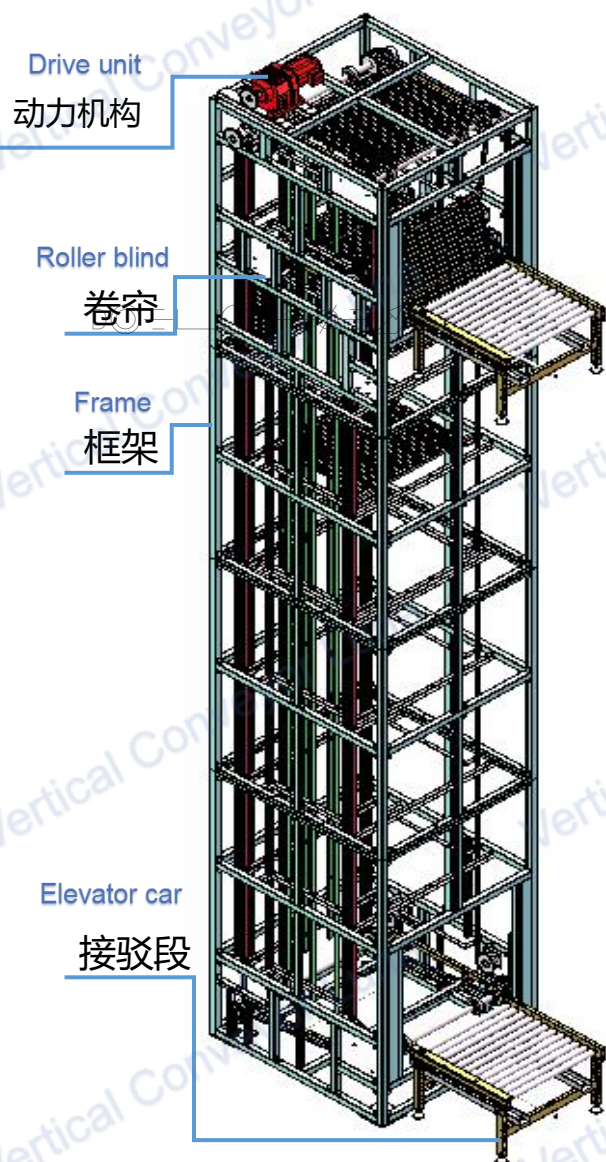
Conveying products L, W, H



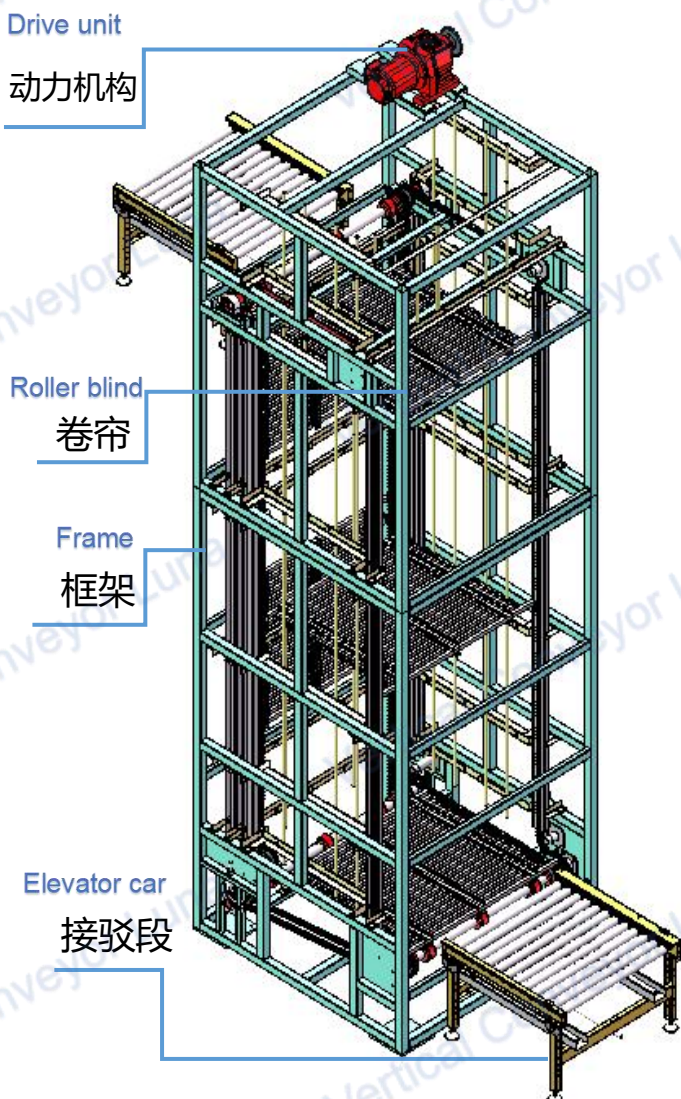
Top view of Z-shaped continuous vertical conveyor



Top view of C-shaped continuous vertical conveyor



Schematic diagram of C-shaped Continuous vertical conveyor structure



Schematic diagram of Z-shaped Continuous vertical conveyor structure

Optional items

1. Motor brand



SHENGBANG

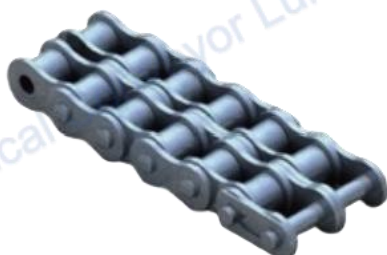


NORD



SEW

2. Chain brand



TKE



DONGHUA/ CHOHO



TSUBAKI

3. Sealing form



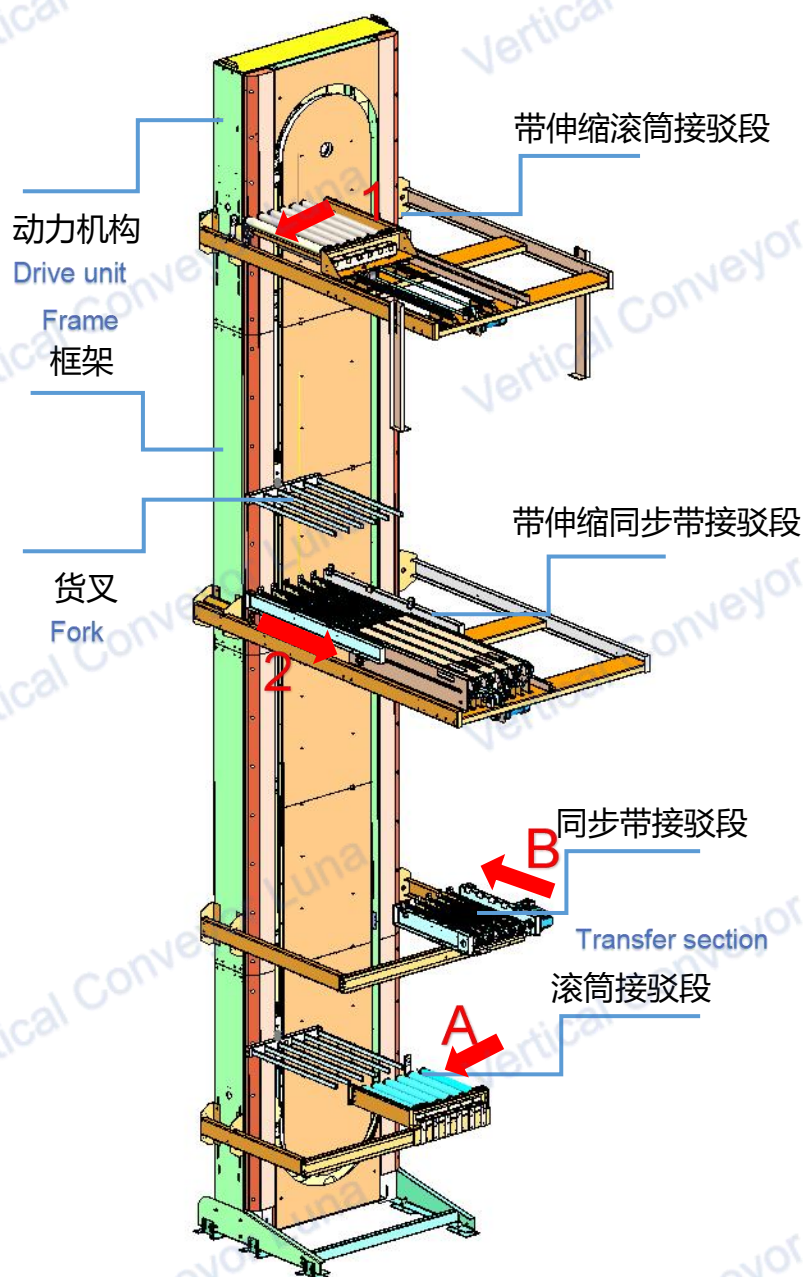
Carbon steel sealing plate



Steel mesh sealing plate



Acrylic sealing plate



The fork platform lifter is suitable for cargo lifting equipment in industries such as logistics and warehousing, home appliances, food, medicine, coatings and chemicals. It is mainly used for the transportation of goods between height differences and forms a complete continuous lifting system with the import and export conveyor lines.

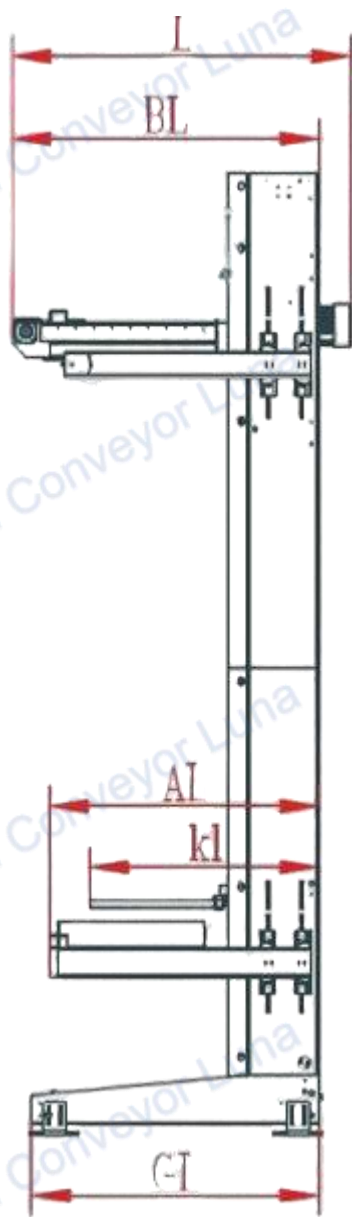
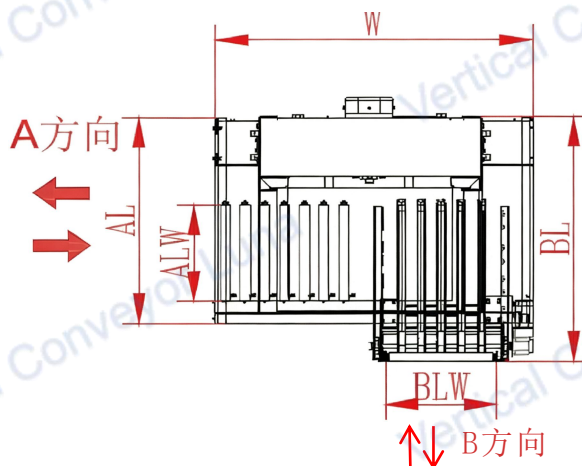
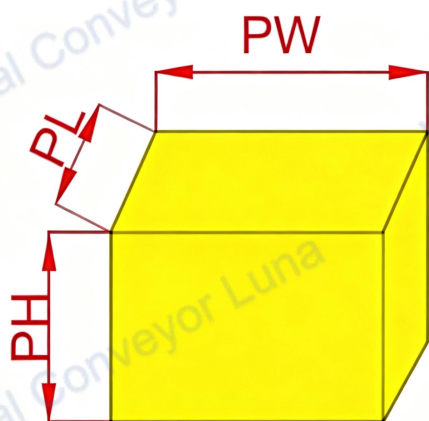
Not only can it be applied to the vertical lifting and transportation of goods, but it can also achieve efficient automatic sorting of goods on different floors in the vertical direction.

Fork platform lifter application restrictions

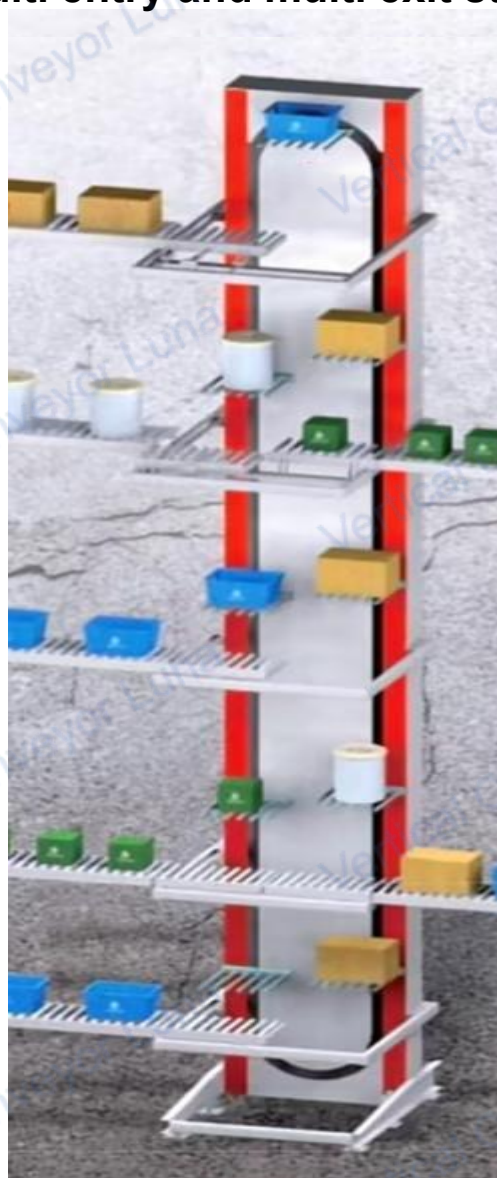
- Maximum cargo size limit: $\leq 800\text{mm} \times 800\text{mm} \times 800\text{mm}$;
- Maximum weight of goods: $\leq 80\text{kg}$;
- Type of entrance and exit: 1 entrance and 1 exit/1 entrance, multiple exits/Multiple entrances and one exit;
- Entrance and exit directions: Vertical access/horizontal access;
- **Note:** The device can be reversed in both forward and reverse directions.

Fork platform lifter Scope of application products

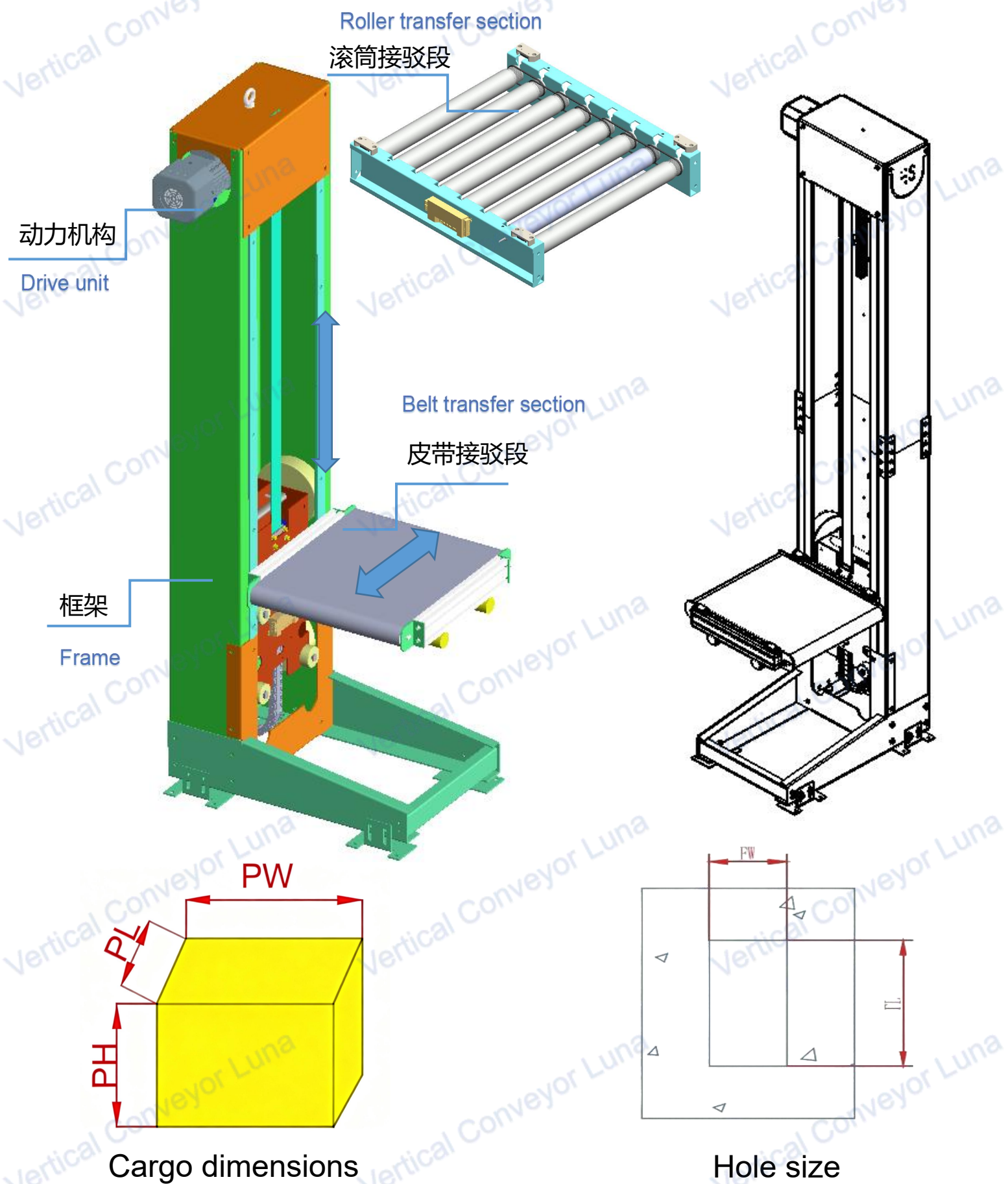




Multi entry and multi exit styles



Widely used in efficient lifting environments such as express e-commerce and supermarket delivery



Make vertical conveying more cost-effective

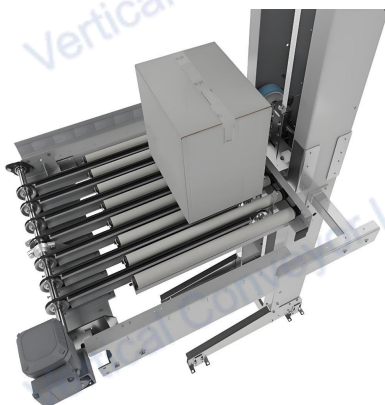


Application Scenario:

- Vertical transport of heavy pallets or totes across floors in logistics centers and factories
- Automatic integration with packaging production lines
- Space-constrained installations

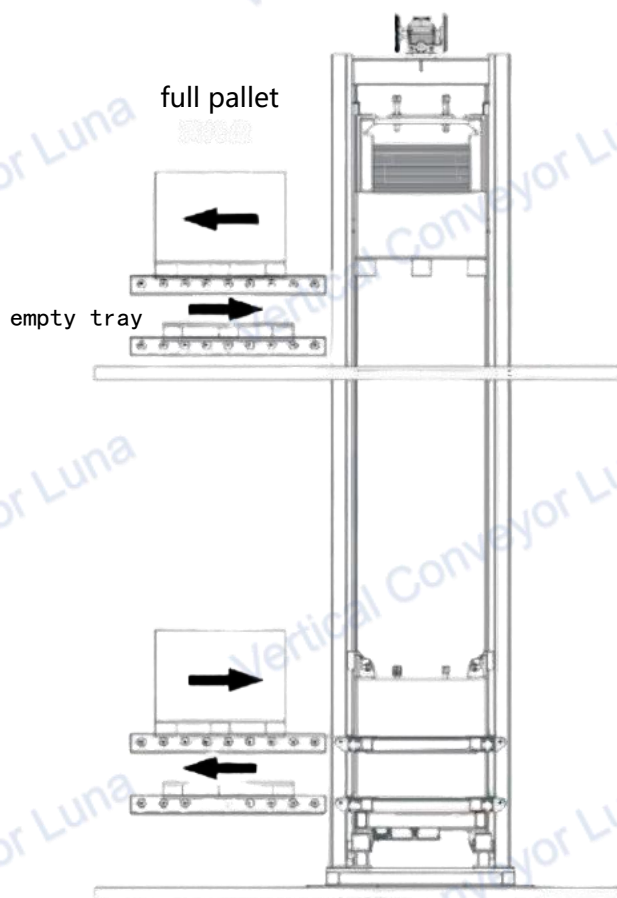
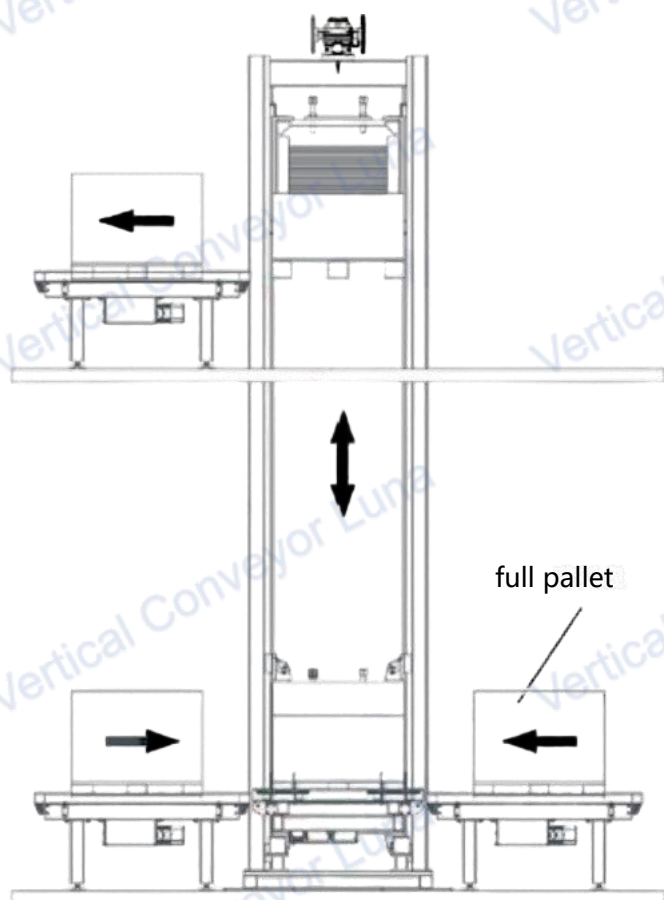
Round trip up and down transportation, with multiple optional safety configurations to meet different levels of safety requirements.

Main parameters			
Payload	lightweight	Medium-sized	Heavy-duty
Payload	Max80KG	Max500KG	Max1500KG
Maximum stroke	22m	15m	10m
Increase speed	Max40m/min	Max25m/min	Max15m/min
Error	$\pm 3\text{mm}$	$\pm 5\text{mm}$	$\pm 8\text{mm}$

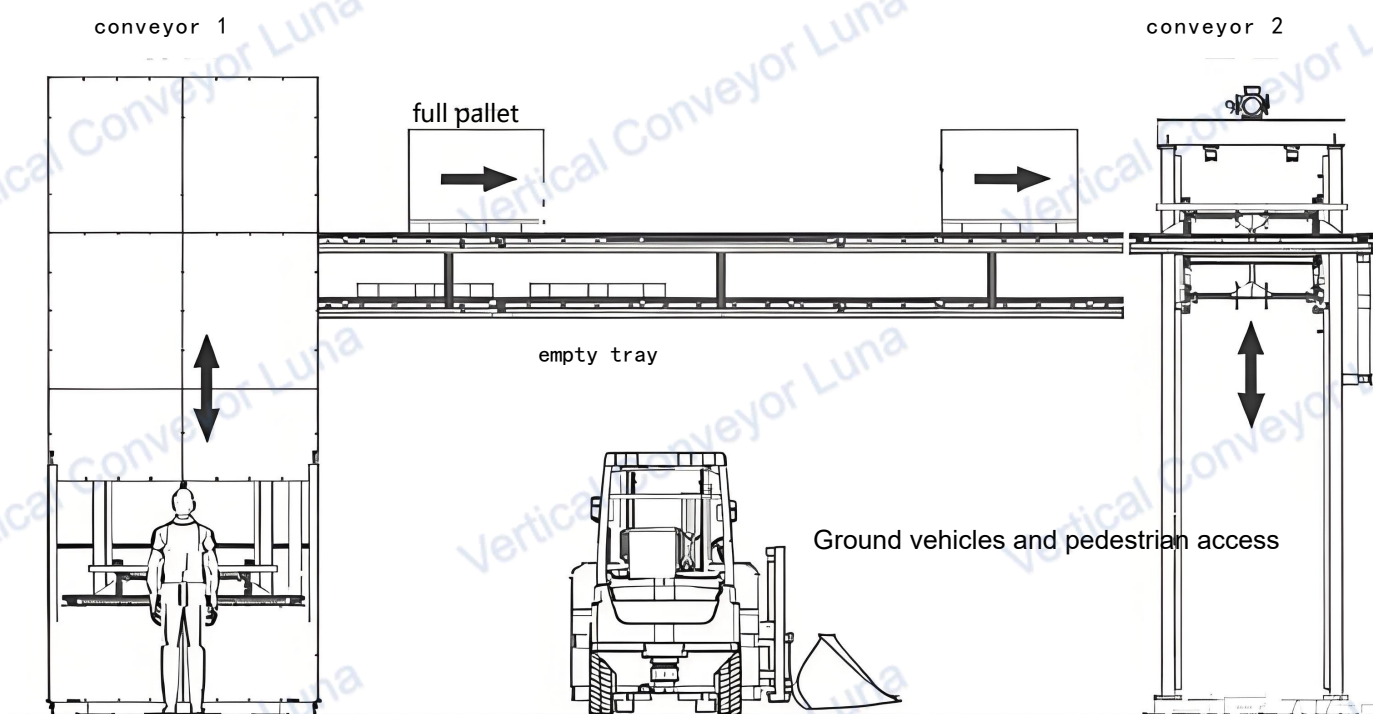


Multi floor and multi station conveyor

Simultaneous connection of multiple floors



Double layer line circulation of full and empty trays in the air, without occupying ground space

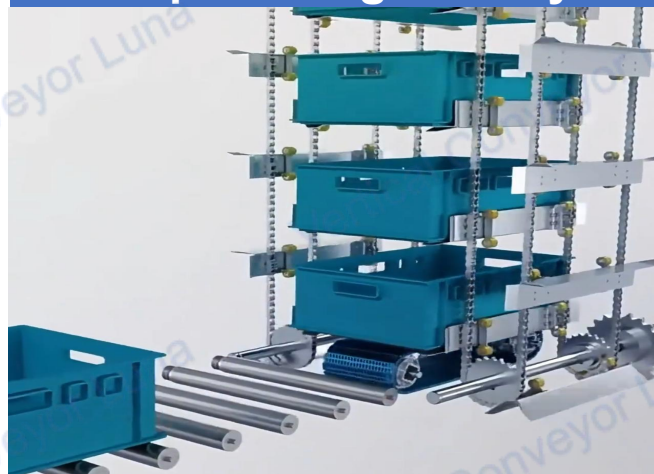


Other conveyors

Indexing Vertical Conveyor



4-Post Vertical Reciprocating Conveyor



Belt conveyor



Belt conveyor



Roller conveyor



Right Angle Transfer



Contact Us



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