



BIFA Automation

KUNSHAN BIFA AUTOMATION TECHNOLOGY CO.,LTD.

JIANGSU BIFA INTELLIGENT TECHNOLOGY CO.,LTD.

MODULAR CONVEYOR SYSTEM

PRODUCT CATALOG-EN 2024



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PRODUCTION SOP



ABOUT US

BILATERAL COOPERATION
FASTER EVLUTION

PROVIDE CONVEYOR SOLUTIONS



www.bifaconveyor.com

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-02/ PRODUCT DESCRIPTION

Conveyor System

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QUALIFICATION CERTIFICATE





COMPANY PROFILE

Kunshan Bifa Automation Technology Co., Ltd. is a comprehensive production enterprise integrating R&D, design, manufacturing, sales and service. The company was founded in 2014. The head office factory is located in Jinxi Town, Kunshan City, Suzhou, an ecological and cultural city. Its subsidiary Jiangsu Bifa Intelligent Technology Co., Ltd. was established in 2020. Its independent property factory is located in the Economic Development Zone of Xuzhou City, Jiangsu Province. The company, Speed Chain Intelligence (Jiangsu) Co., Ltd., was established in 2023. It has many senior Speed Chain design talents with a registered capital of 10 million. The company's products have passed 9001 quality certification and CE certification, and have obtained more than 20 patent certificates, and in 2022 Settled in high-tech enterprises every year.

After more than ten years of experience in the non-standard conveyor equipment industry, combined with the environmental advantages of Asia's industrialized smart equipment industry, rich industrial conveyor equipment production experience and pragmatic design concepts, the company is committed to providing high-quality and comprehensive solutions to the automation industry. Industrial automated conveyor system solutions.

The company's main products include: belt conveyors, free flow conveyors, roller conveyors, timing belt conveyors, table top conveyors, flexible roller conveyor, flexible chain conveyor, modular conveyors and conveyor-related supporting mechanisms. It is widely used in the production and assembly of food, beverages, and medical treatment, as well as in the photovoltaic field, auto parts production field, new energy manufacturing lithium battery, semiconductor and other fields. The product frame adopts independent mold opening, high-strength aluminum alloy profiles and accessories, and has a high safety factor; zero The design of accessories is standardized, modular, easy to assemble and disassemble, and more convenient; the flexible design is reusable and more economical, and the response speed is immediate and efficient throughout the entire cooperation process, making it more worry-free.

PRODUCT CONCEPT

The design structure is novel, the appearance is beautiful, and the technology is advanced; it is safe, convenient, and durable; maintenance is simple and easy to operate; the equipment is cost-effective; regardless of the size of the conveying equipment project, Kunshan Bifa Automation will rely on its rich experience to continuously innovate , provide customers with timely and complete services; provide new and old customers with training and technical support provided by company experts, and continuously create value for users! For this reason, Kunshan Bifa Automation Technology Co., Ltd. serves its customers wholeheartedly, actively participates in market competition with excellent and outstanding honest products, and creates a quality system of "professional concentration, excellence, and pursuit of perfection".



CULTURAL CONCEPT

"Concentrate and focus" is the service concept we have always adhered to. With a standardized, standardized and professional service system, we provide customers with rich technical service experience and professional knowledge to ensure that customers enjoy high-quality, efficient and personalized service resources.



COOPERATIVE CUSTOMER



Through more sophisticated technical improvements and stricter quality control, Bifa has won the trust of many customers and met their needs for higher-quality conveying equipment. Bifa's products play an important role in the field of automated transportation and continue to deliver value to customers! Bifa automated conveying equipment, your trustworthy partner!

LEXY 莱克
让世界更干净

FOXCONN®

IIECC 艾西

吉麦新能源汽车

中国中车
CRRC

康迈臣

GCL

Midea

TUORen

XCMG
徐工集团

BAOWU

DENSO
Crafting the Core

XINHAI 新海集团

比高集团
BINGO GROUP

Dole

MENSHEN

YUDO
Leading Innovation

CATL
宁德时代

SMIC

君乐宝
JUNLEBAO

UPTON



BYD
比亚迪汽车

CHL Rob 华航唯实

康正藥業
KANGZHENG PHARMACEUTICAL

Yanfeng

诺伯特
NOBOT



CORPORATE IMAGE



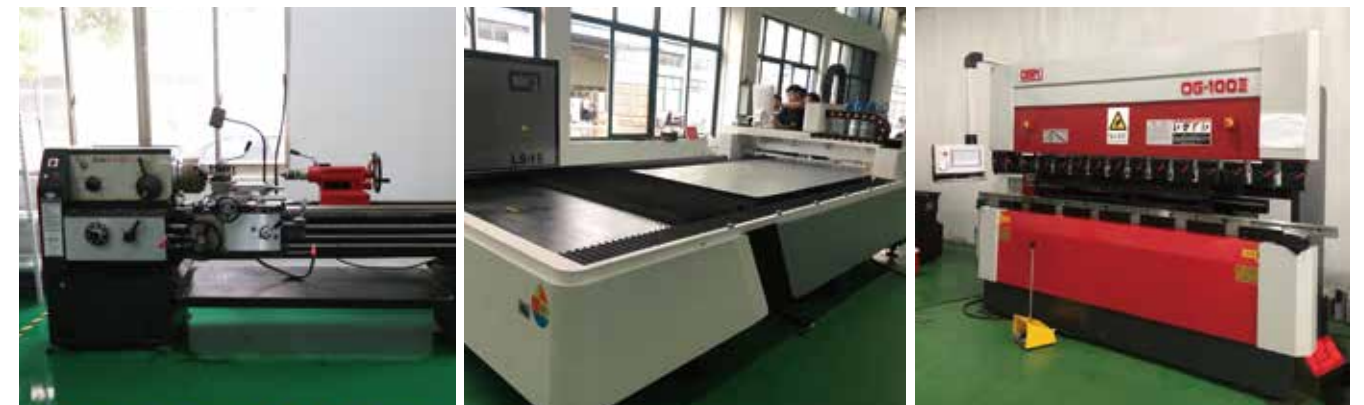
▶ Entering Bifa-Office



▶ Entering Bifa-Warehouse



▶ Entering Bifa-Processing Workshop



▶ Entering Bifa-Assembly Workshop





BASIC TRANSFER SYRSTEM

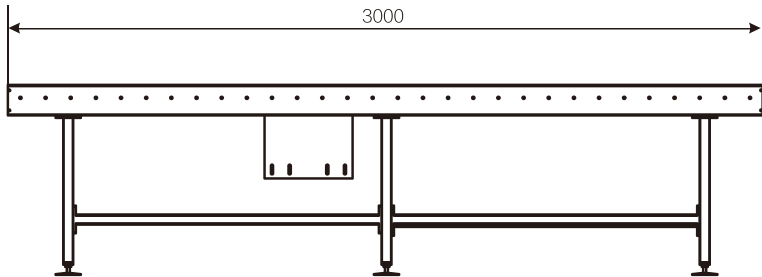
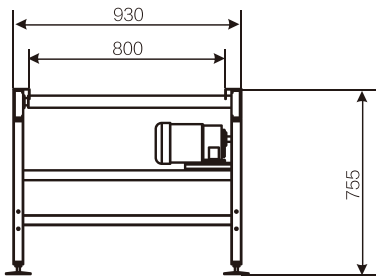
- Roller Conveyors 08
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ROLLER CONVEYORS

Roller conveyor is suitable for transporting all kinds of bags, pallets and other goods. Bulk materials, small items or irregular items need to be placed on pallets or in turnover boxes for transportation. It can transport a single piece of material with a large weight or withstand large impact loads. There are various structural forms. The raceway line can be divided into powered raceway line and unpowered raceway line according to the driving mode. According to the layout form, it can be divided into horizontal conveying pipeline line, inclined conveying raceway line and turning conveying raceway line. It can also be specially designed according to customer requirements. The raceway lines can be easily connected and transitioned. Multiple raceway lines and other conveying equipment or special planes can be used to form a complex logistics transportation system to meet various process requirements.

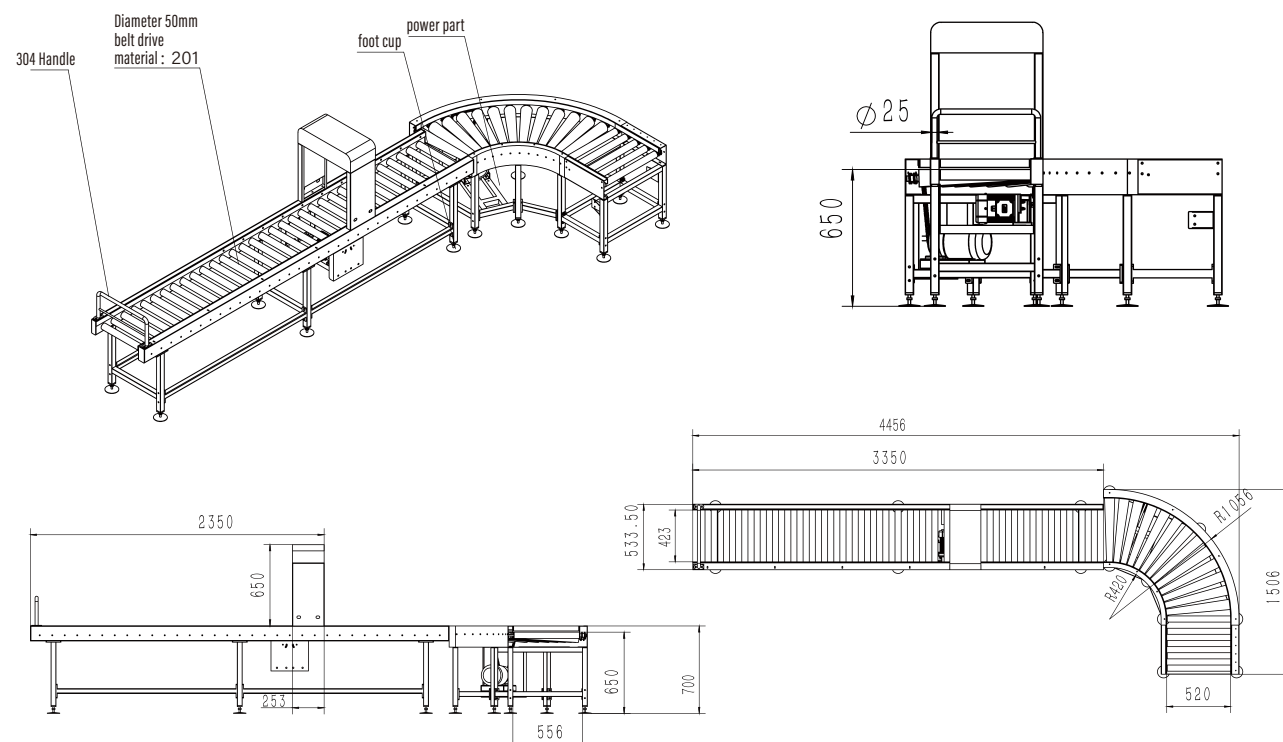


DRAWING





DRAWING

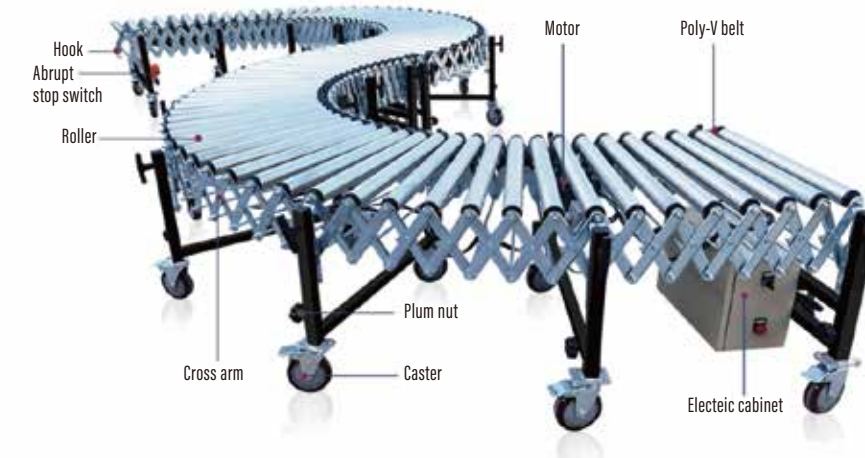


FLEXIBLE /// Roller Conveyors

Flexible roller conveyor is a kind of conveying equipment, which can twist and put out any shape at will, and can adapt to different transportation environment, such as turning, climbing, downhill and tilting., the goods with the rotation of the roller automatically transmitted, without human promotion or manual handling, greatly reducing the distance and time of manual handling materials.so as to decrease the labor intensity, reduce the damage of goods, improve work efficiency. The power of the equipment comes from the transmission motor, and each unit is equipped with a set of power system,The electric control system guides and controls its start, stop, forward and reverse.The equipment can be used alone, and used in combination with other conveying equipment, The biggest advantage of the combination is to replace the traditional turning machine, can be accommodated, to make way for fire or pedestrian access. More can be finished after the package Transfer of irregular materials such as snakeskin bags, wooden frames and soft bags.Widely used in express delivery, e-commerce, cloud warehouse, logistics, warehousing, cold chain, granary, railway transport and other industries. Complete the loading and unloading operation of material transfer in and out of warehouse.



STRUCTURE



BELT /// CONVEYORS

► Introduce

The belt conveyors can transport a wide variety of materials. It can transport all kinds of bulk materials, as well as various cartons, packaging bags and other small items with a single weight. It has a wide range of uses. There are various structural forms, including trough belt conveyor, flat belt conveyor, climbing belt conveyor, side tilt belt line, turning belt line, etc. The conveyor belt can also be equipped with push plates, side baffles, skirts and other accessories. , can meet various process requirements.

► Details



Deviation Adjustment Device

The surface of the thickened aluminum block is anodized and fixed with a full set of stainless steel screws, making it solid and durable without deformation. The left and right aluminum blocks can be adjusted for deviation.



1.5 thick Galvanized Sheet

The belts are made of 1.5mm thickened galvanized plates for load-bearing and reinforced ribs are welded to make the whole machine easy to carry and the machine is stable and strong.



Dustproof Design

The aluminum alloy frame is lightweight, durable and easy to clean. The dust proof end cover design prevents dust from entering and also prevents sharp cross-sections from accidentally injuring employees. The humanized design ensures safety and security.



PVC Belt

PVC material belts, including ordinary type and climbing baffle type, have the advantages of being dust-proof, antistatic, wear-resistant, and oil-proof. Can be selected according to needs.



Screw Adjustable Lifting Table

The height required for raising and lowering can be adjusted, and the operation is simple, convenient and practical.



Speed Controller

The speed is adjustable, and the specific belt speed can be adjusted according to customer requirements. Reliable quality, durable, low noise, high product stability, and quality assurance.



Motor

The minimum power is a 60W motor, which is usually equipped with a 1:30 gearbox, based on the load of the entire machine. The belt speed can be equipped with different specifications of fluctuation range.



Bearing End Cap

The dust-proof end cover design of the bearing facilitates later maintenance. Lubricant can be added to the refueling hole to maintain the bearing.

/// Commonly used belt conveyors



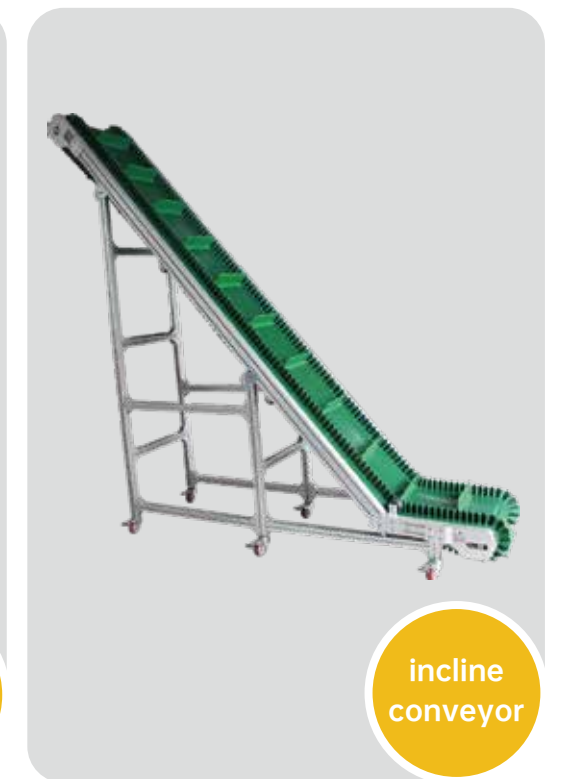
curved conveyor



bottomless belt conveyor



hopper conveyor



incline conveyor



flat belt conveyor

/// BF Belt

STANDARD CONVEYOR BELT


B1
B2
B3
B4
B5

Description	Colour	Thickness(mm)	Temperature range	Application types
B1	atrovirens	1~5	-10~70°	all types
B2	green	1~5	-10~70°	all types
B3	orange	1~5	-10~70°	all types
B4	white	1~5	-10~70°	all types
B5	black	1~5	-10~70°	all types

OTHER CONVEYOR BELT



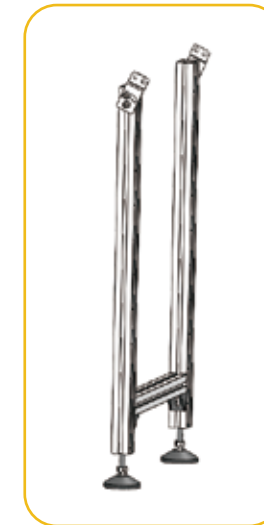
/// BF Leg



L1-Angle Adjustable

1.40x40 aluminum profile supportframe;

2.±30mm height adjustment;

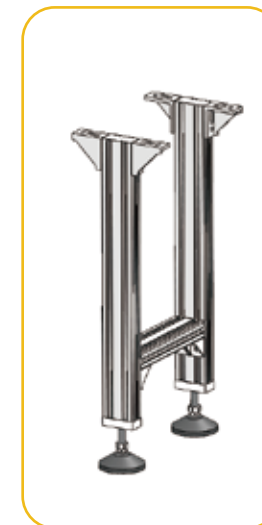


L2-Angle Adjustable

1.40x40 aluminum profile supportframe;

2.±30mm height adjustment;

3.±15°angle adjustment;



L3-Angle Adjustable

1.30x60 aluminum profile supportframe;

2.±30mm height adjustment;

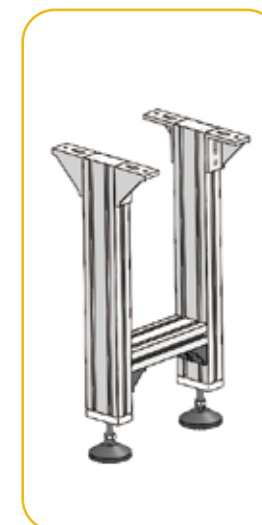


L4-Angle Adjustable

1.30x60 aluminum profile supportframe;

2.±30mm height adjustment;

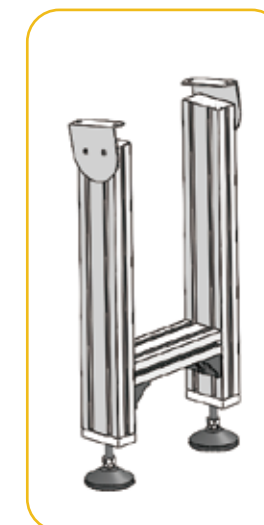
3.±15°angle adjustment;



L5-Angle Adjustable

1.40x80 aluminum profile supportframe;

2.±30mm height adjustment;



L6-Angle Adjustable

1.40x80 aluminum profile supportframe;

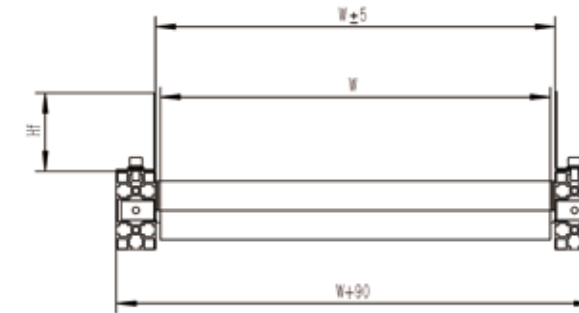
2.±30mm height adjustment;

3.±15°angle adjustment;

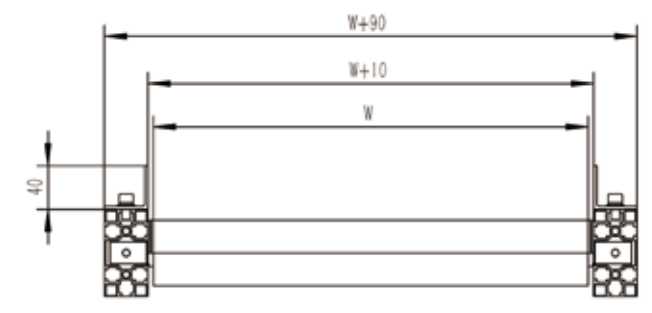
/// BF Foot cup/ Casters



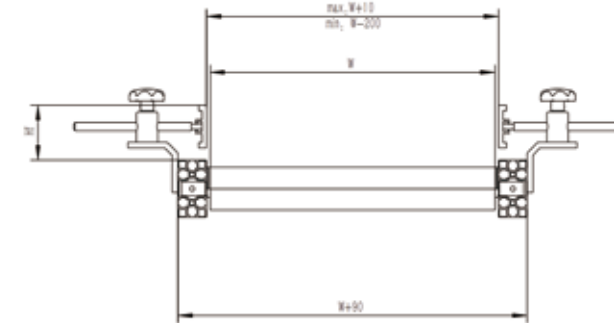
/// BF Guardrail



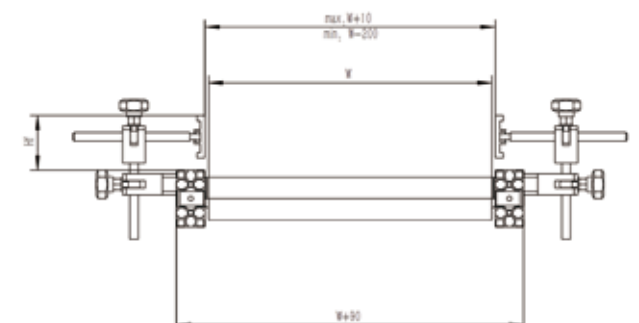
G1-Fixed Guardrail (304 edge guard)



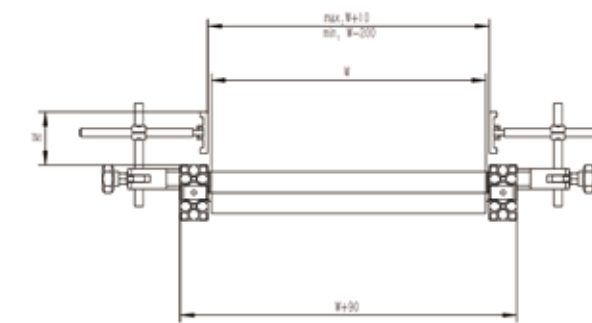
G2-Fixed Guardrail (Aluminum edge)



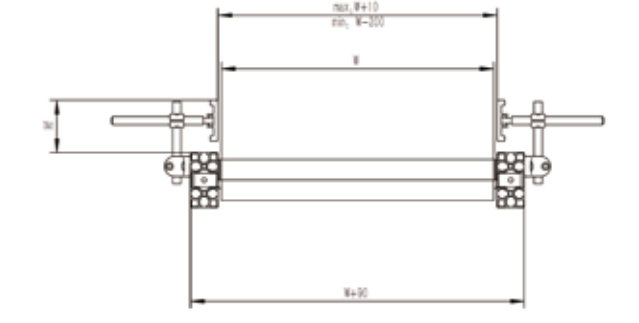
G3-Adjustable Guardrail
(Stainless steel bracket+large C guardrail)



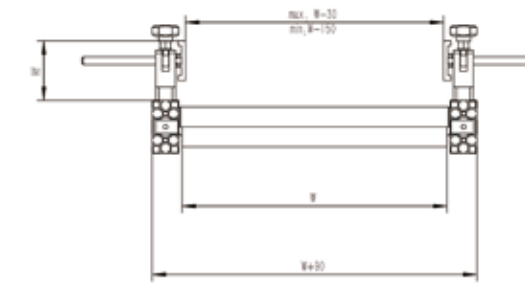
G4-Adjustable Guardrail
(Nylon bracket+large C guardrail)



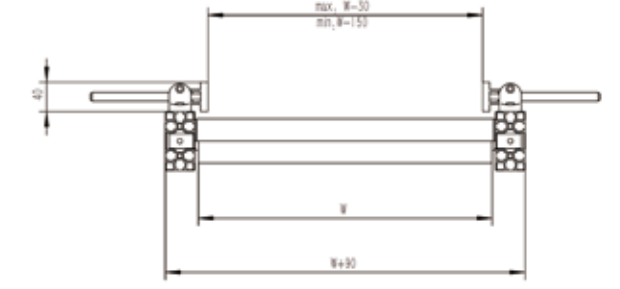
G5-Adjustable Guardrail
(Nylon bracket+large C guardrail)



G6-Adjustable Guardrail
(Nylon bracket+large C guardrail)



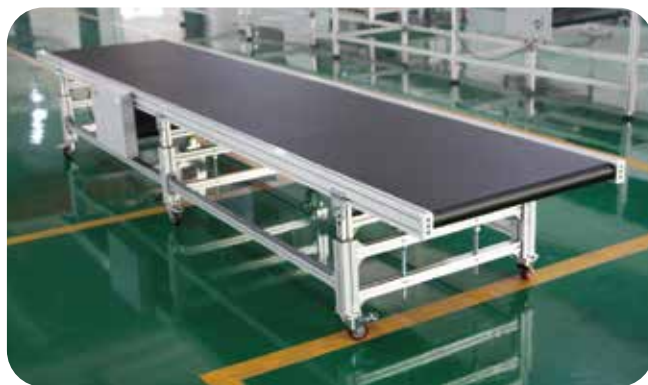
G7-Adjustable Guardrail
(Nylon bracket+large C guardrail)



G8-Adjustable Guardrail
(Nylon bracket+large C guardrail)

Heavy duty belt conveyors

Flat large line structure conveyor, the supporting legs can be used as fixed height foot cups or casters for fine adjustment, and can also be used as lifting legs to adjust the height with screw rods. The structure adopts a unique large line design, which is suitable for large load capacity and relatively wide and long lines. The equipment has a bottom-mounted motor, a center-mounted roller, variable frequency speed regulation, a stable and solid transmission part, and a large carrying capacity.



Motor Mounting Plate



Belt Wrap Mechanism

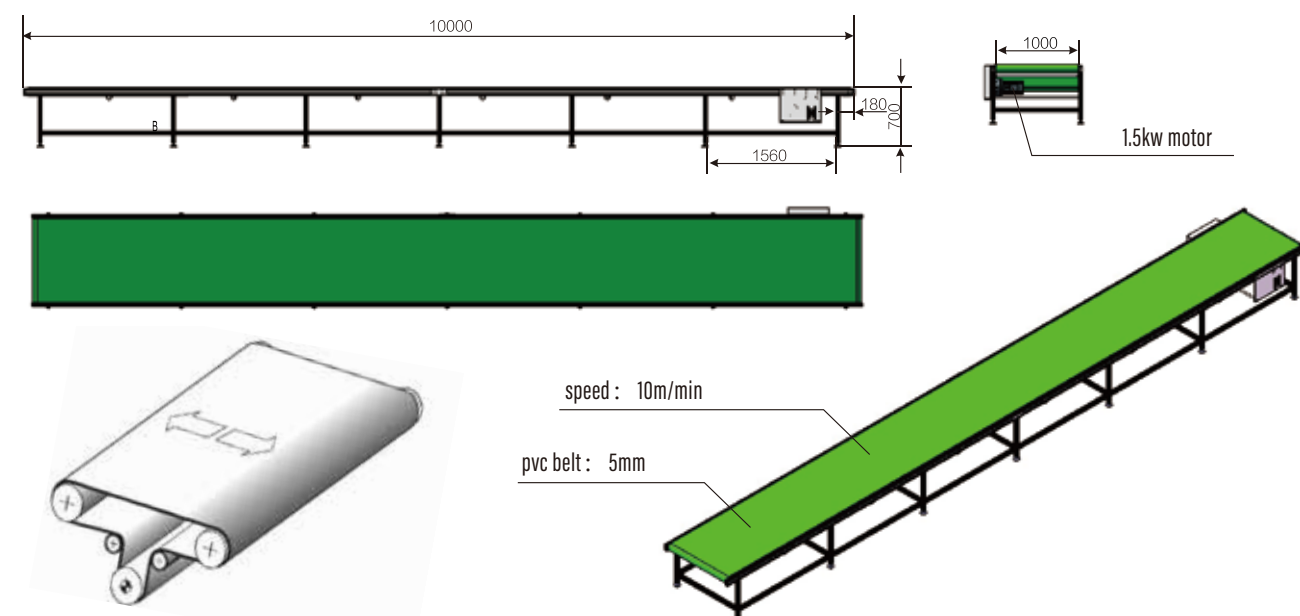


Gear Chain
(with protective cover)



Mid-Mounted
vertical motor

DRAWING



Flat conveyors

For flat fixed-leg conveyors, you can choose brake movable casters or foot cups. The height of the feet can be finely adjusted, and there are no screw rods on both sides. The flat lifting leg conveyor is a dual-purpose type. The front and rear height of the fuselage can be adjusted as needed. The fuselage can be tilted or used flat. It has adjustable screw rods on both sides and is easy to operate. It usually uses green PVC anti-static belts, which is easy to use.



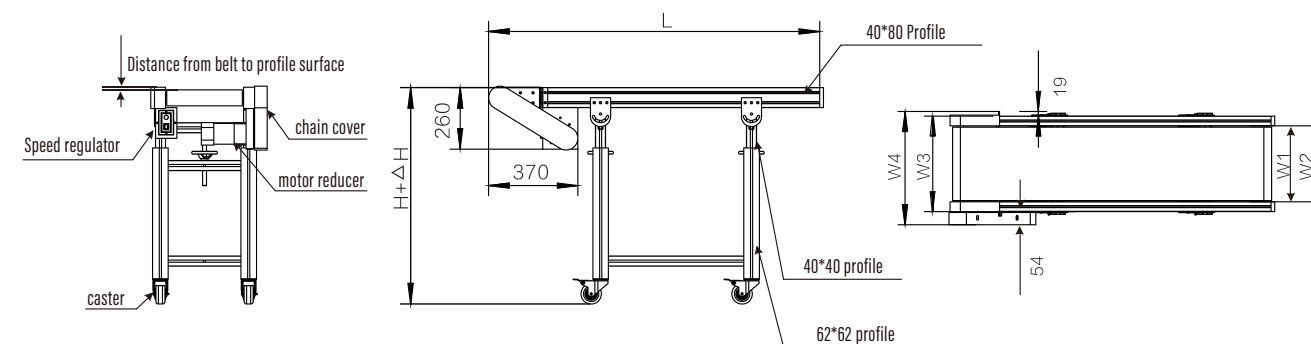
Fixed
height legs



Adjustable
height legs

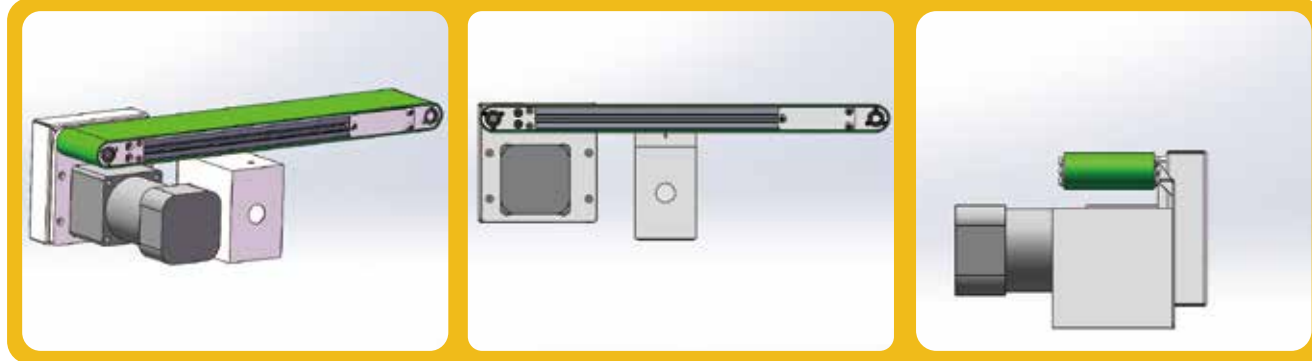


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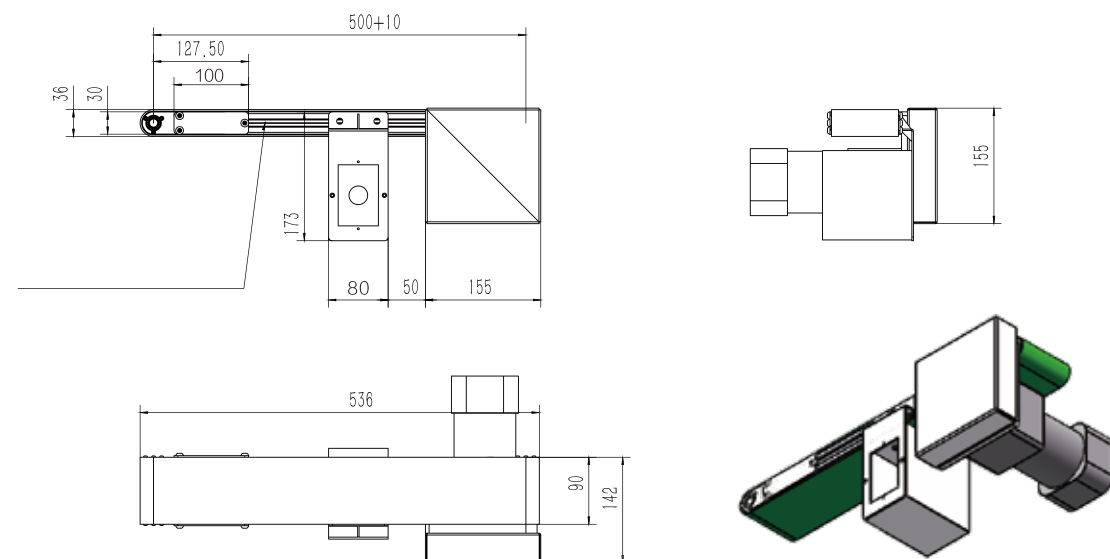


Low profile conveyors

The low profile belt conveyor is a type of conveyor. It has the characteristics of light load and low linear speed, and can continuously transport materials. The conveyor belt is made of white or green food-grade conveyor belt, which is durable, clean and hygienic. When selecting and designing, choose an edge wrapping belt conveyor according to the total width requirements and space constraints.



DRAWING

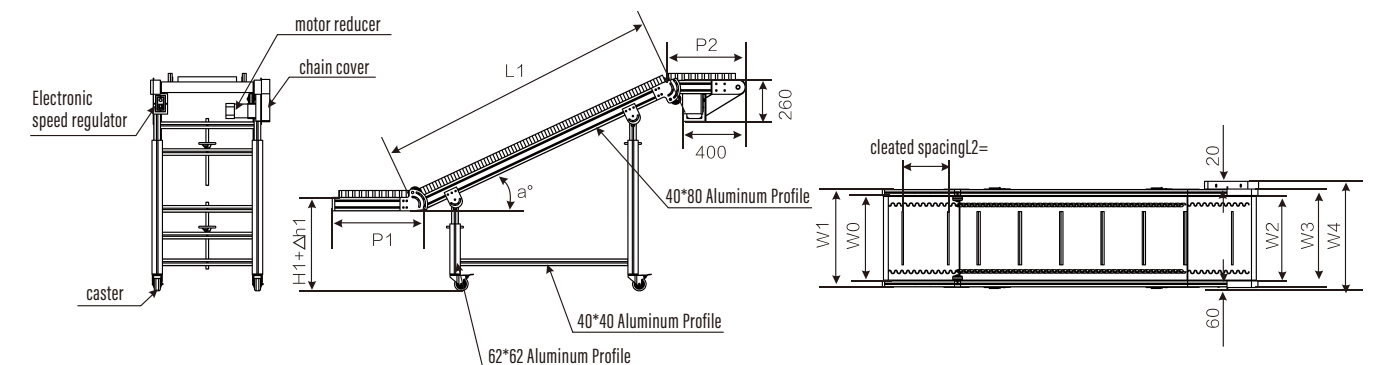


Incline conveyors

Incline conveyors with platforms come in many styles, are widely used, and have various structural forms. The support belts can be made of PVC, PU, and other materials, and can be equipped with accessories such as baffles, guide bars, skirts, and hoppers. Low-end platforms can be used Products are transported out smoothly, and the high-end platform plays a role in smooth transportation and docking at high altitudes. The skirt baffle design prevents the product from falling or splashing easily

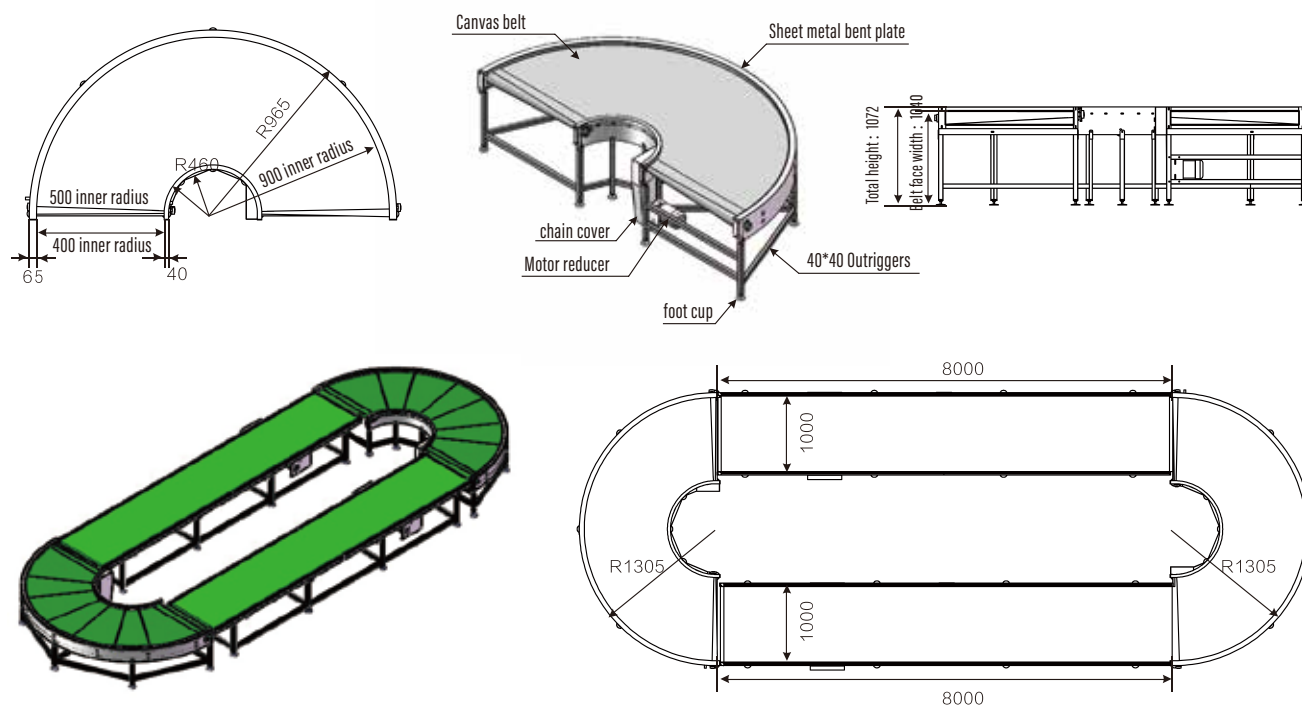


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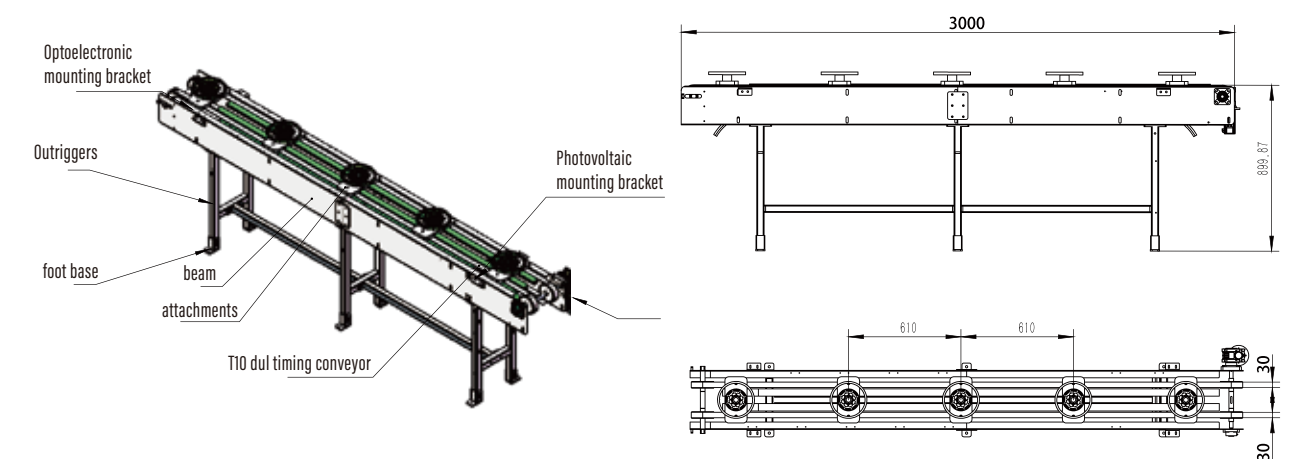


TIMING BELT /// CONVEYORS

Timing belt conveyor use synchronous belts as carriers and are mainly used for positioning or fixed distance transportation and transmission. Baffles can be added to the synchronous belt to achieve slope or even vertical conveying. Widely used in medicine, papermaking, tobacco, automatic doors and other industries.



DRAWING



CHAIN /// CONVEYORS

The chain conveyor use chains as traction and carriers to transport materials. The chain can use ordinary sleeve roller conveyor chains, accumulation and release chains, and double speed chains). The chain conveyor line mainly transports pallets, large turnover boxes, etc.The chain conveyor line is a widely used assembly line conveyor equipment. The chain conveyor line is non-standard equipment and can be customized according to customer needs.



Tooling
available

► DRAWING

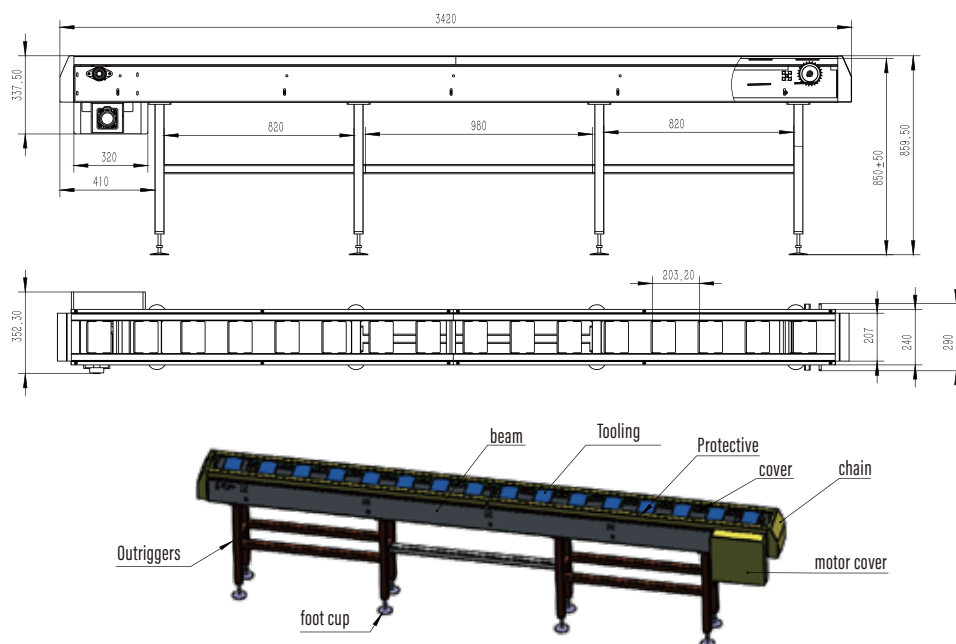


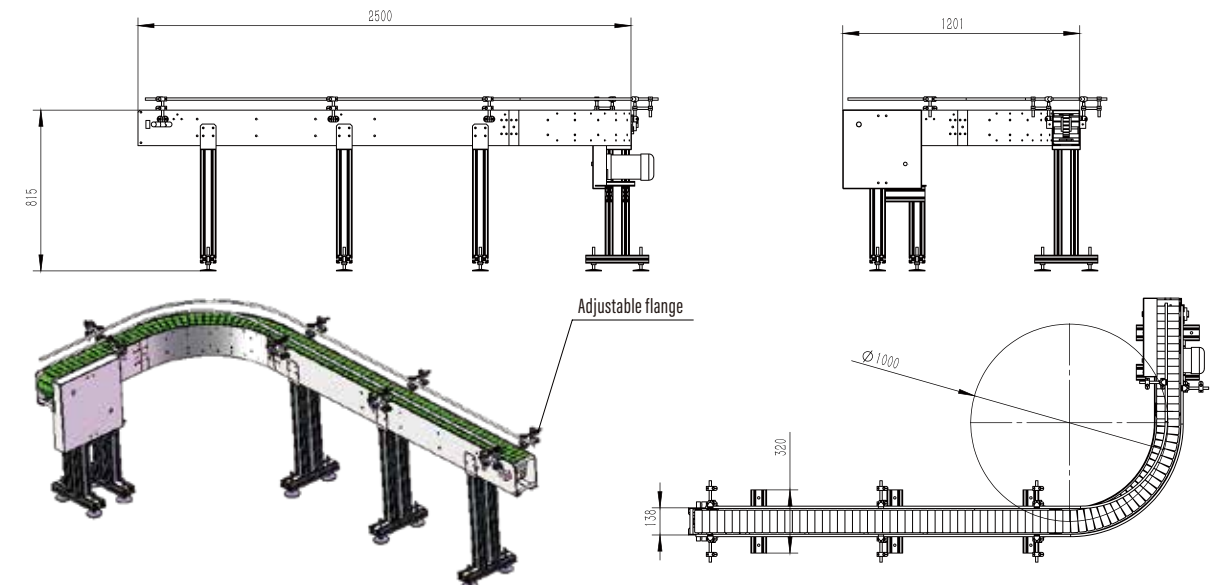
TABLE /// TOP CONVEYORS

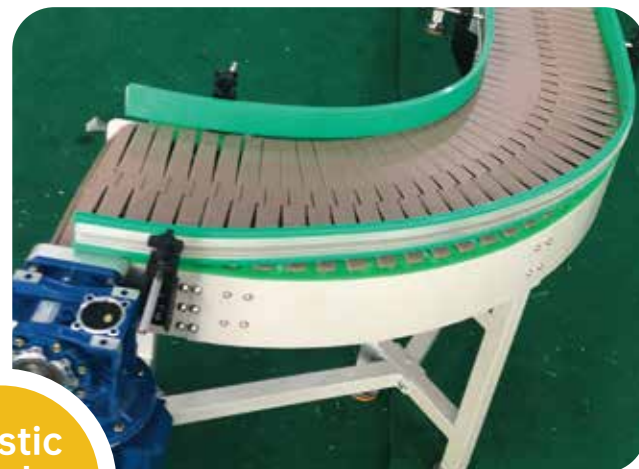
The table top conveyor use standard top plate as the load-bearing surface, is driven by a motor reducer, and runs on a special guide rail. The conveying surface is flat and smooth, with low friction, and the material transitions between transportations are balanced. Depending on the process, the chain plate conveyor The lines are divided into straight and curved shapes, and the materials are divided into thermoplastic steel and stainless steel. They are suitable for transporting materials generally including plastic bottles, glass bottles, cans, and other packaging products.



SUS
304 CHAIN

► DRAWING

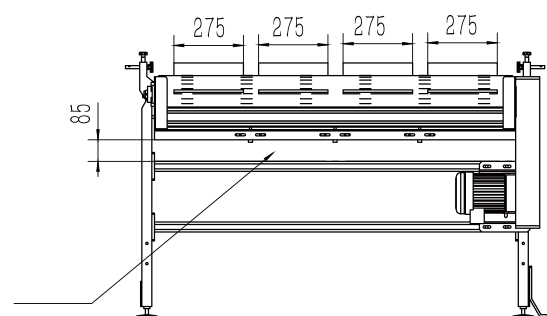
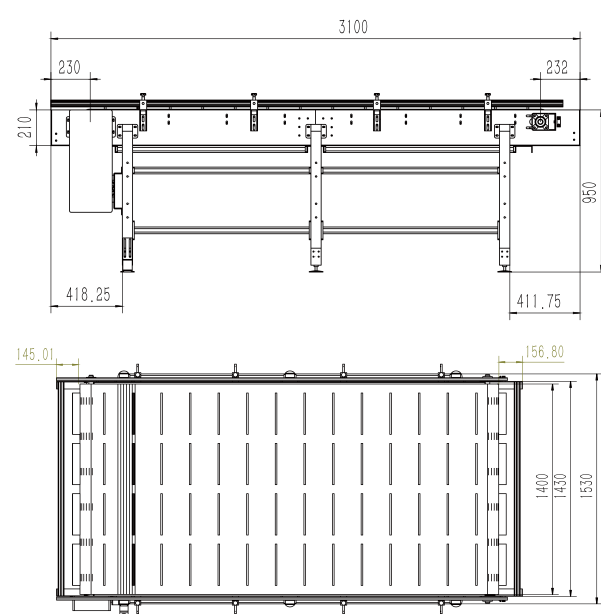




plastic
slat
conveyor

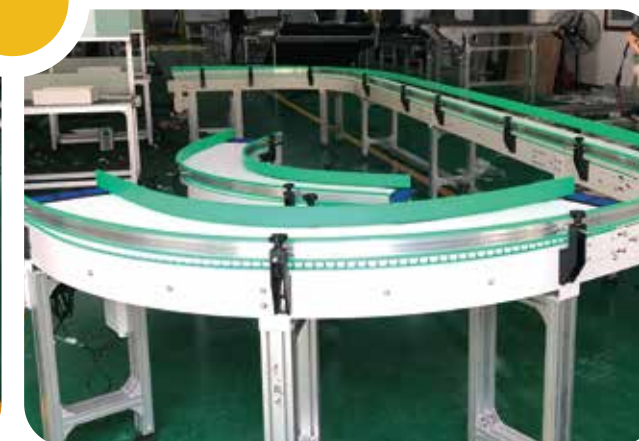
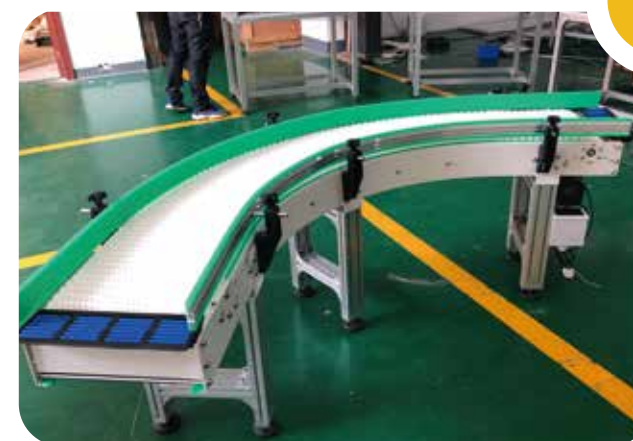
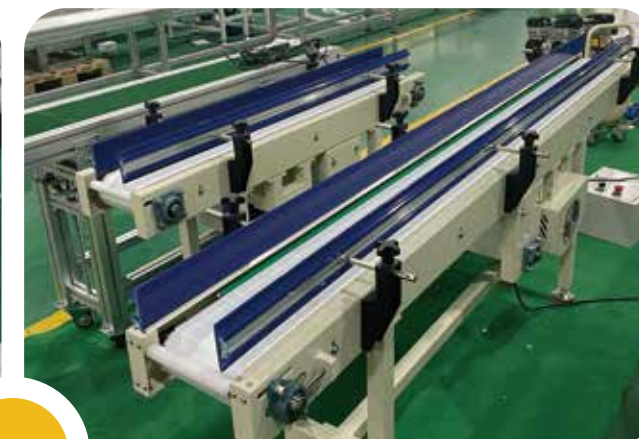


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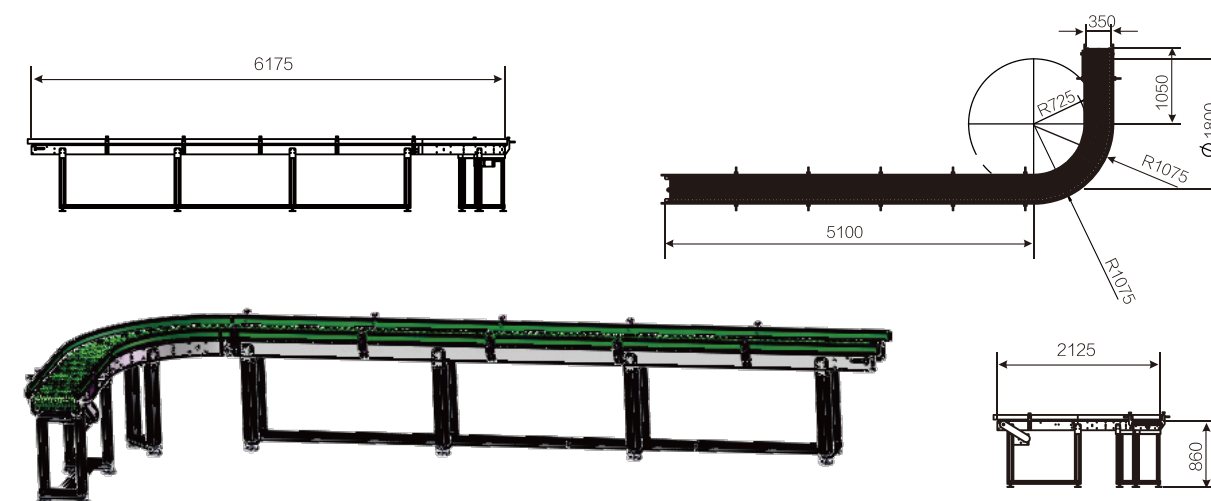


MODULAR CONVEYORS

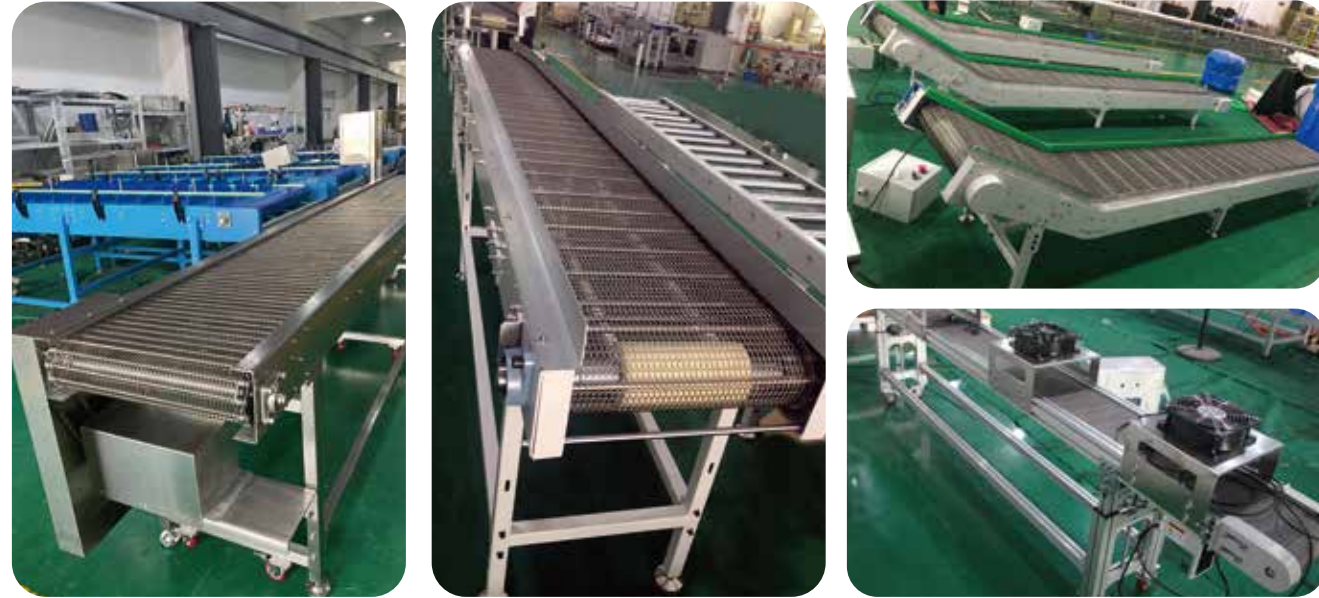
The modular conveyor can operate in two driving modes: sprocket and roller. The conveyor belt is made of stainless steel or plastic mesh belt. The material can be carbon steel painted structure or 304 stainless steel. It has high strength, low flexibility, not easy to deform, easy to maintain, hygienic, corrosion-resistant, high temperature or harsh environment resistance.



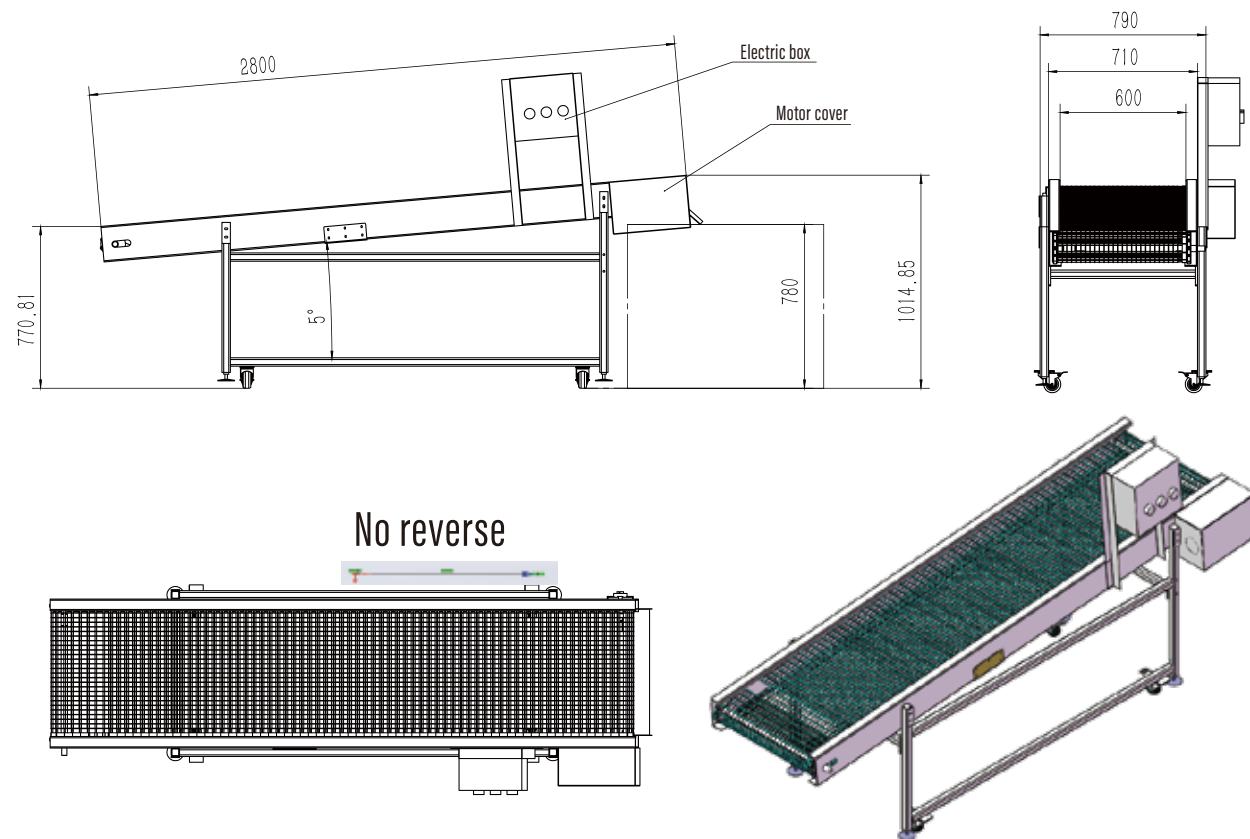
DRAWING



/// Stainless steel wire mesh conveyors



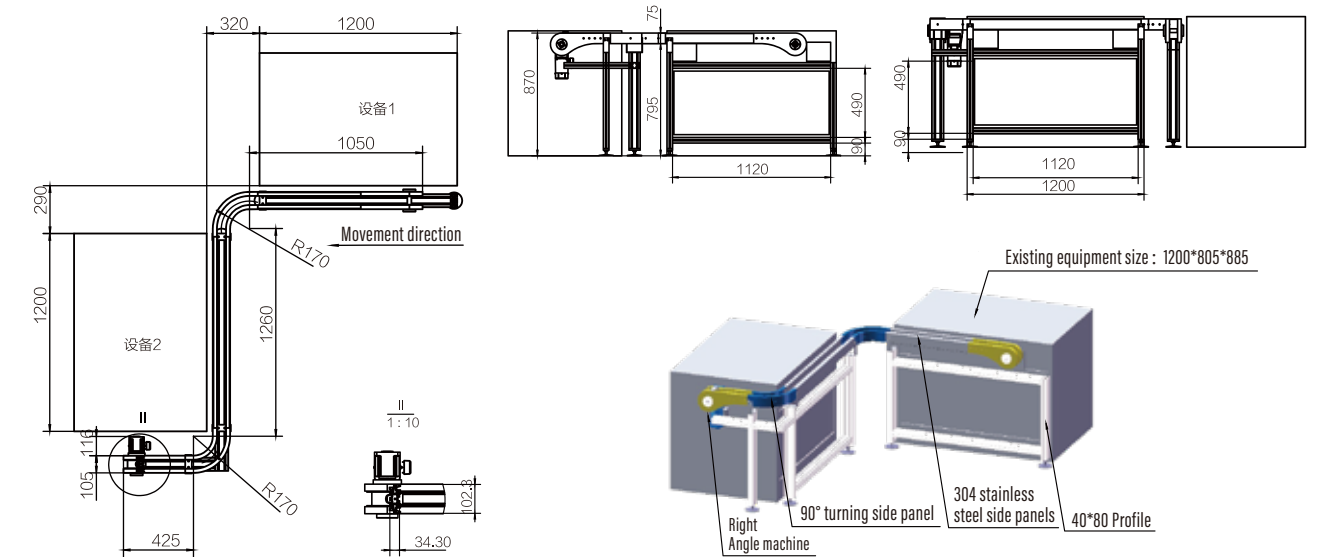
► DRAWING



FLEXIBLE /// CONVEYORS



► DRAWING

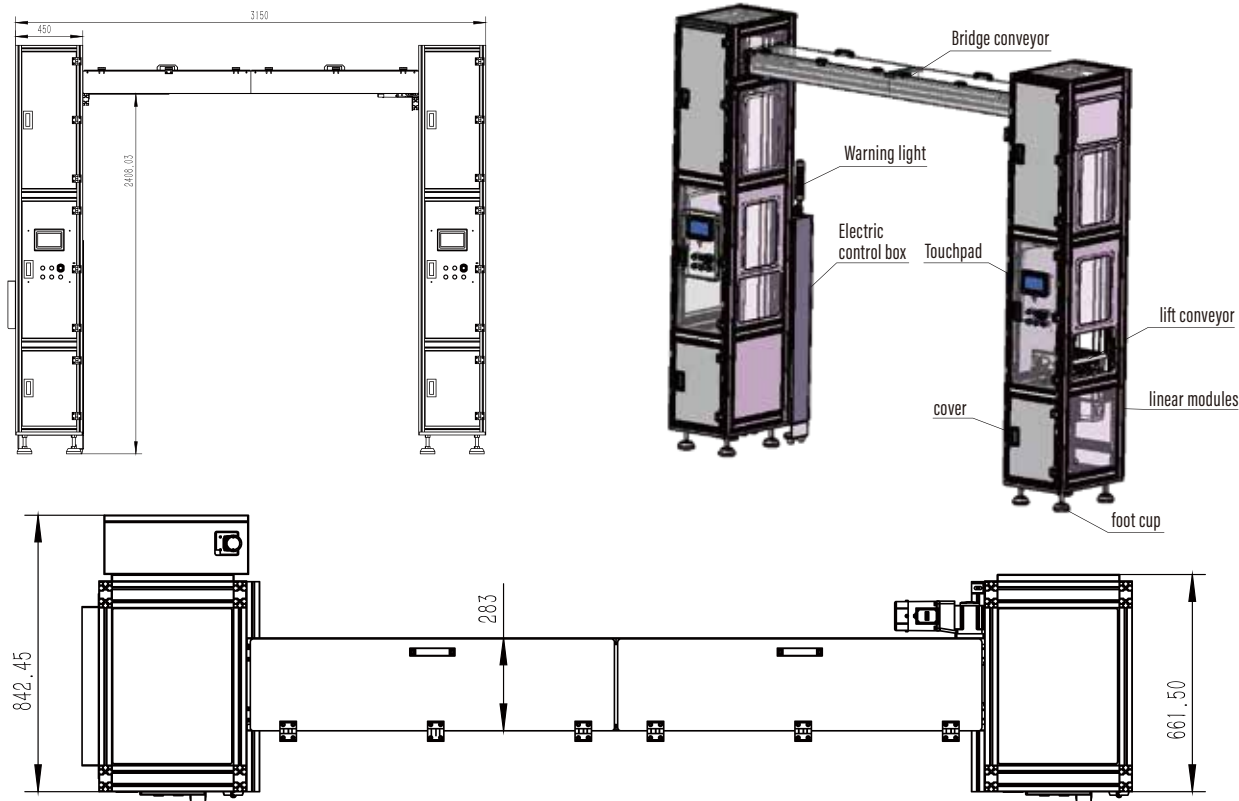


VERTICAL /// CONVEYORS

The vertical lifting conveyor is suitable for vertically lifting or lowering flat-bottomed objects such as plastic baskets and cartons between floors. It has high conveying efficiency, is fully automated, small in size and visually beautiful. It can be made into Z-shape and C-shape to complete the transportation according to customer requirements. In order to improve the conveying speed, the gap type entry and upper and lower docking of objects can also be doubled by making double rows of inlets and outlets.



► DRAWING

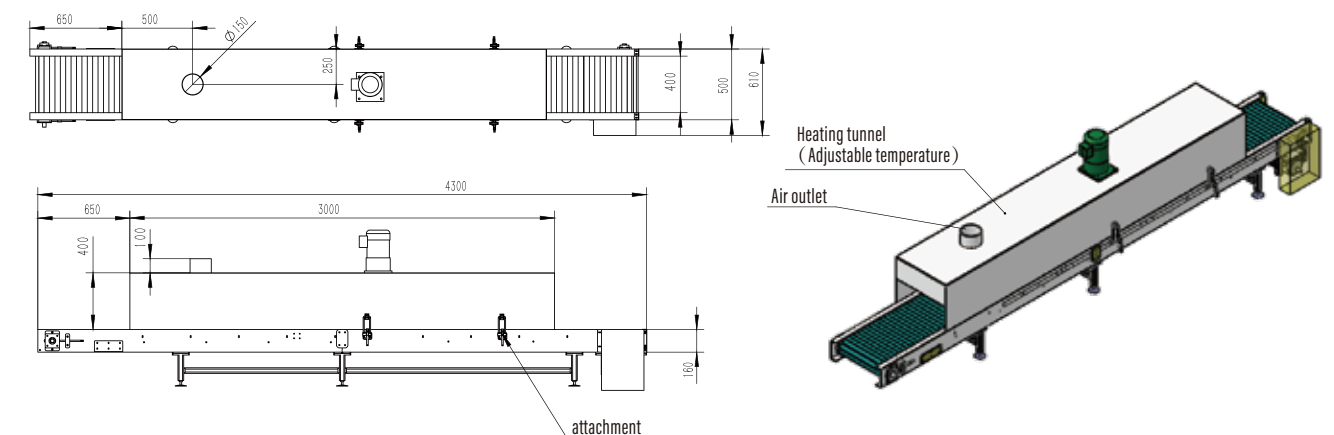


TUNNEL /// CONVEYORS

The main structure of the tunnel conveyor, the lower part is transported by a conveyor belt, and the upper part is heated. The conveyor belt is conventionally used, PVC belt, PVC high temperature resistant belt, Teflon mesh belt (grid 4*4), Teflon cloth belt, chain plate transportation, stainless steel mesh belt conveyor, double speed chain conveyor, choose the conveyor method according to the customer's product temperature and weight; the upper part is heated by the heating zone, the general main structure, the exterior is made of 1.5T iron plate paint, or stainless steel.



► DRAWING



NON-STANDARD CUSTOMIZED VARIOUS SPECIFICATION STYLES CONVEYORS



180-degree flip machine



motorization roller conveyor



power flexible roller conveyor



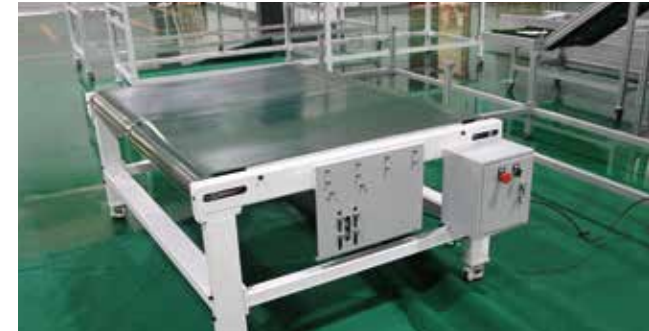
flexible roller conveyor



skat conveyor



stainless steel slot conveyor



Stamping belt conveyor



accumulation conveyor



pop-up conveyor



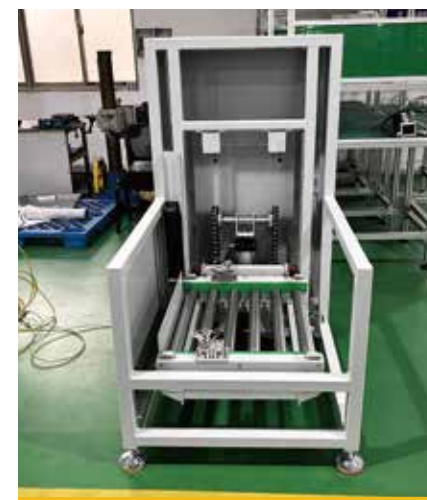
Lift and traverse conveyor



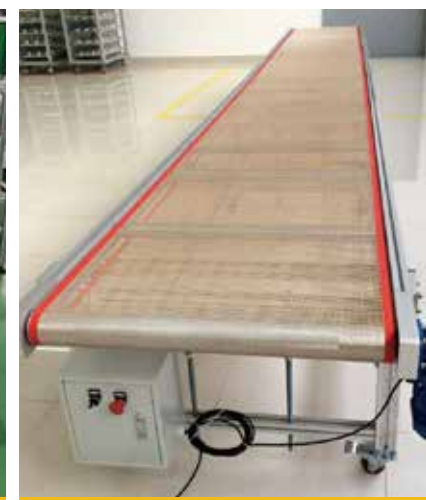
bottomless conveyor



pallet dispenser



roller lift conveyor



ptfe mesh conveyor



stainless steel mesh conveyor

Case Sharing ///

