

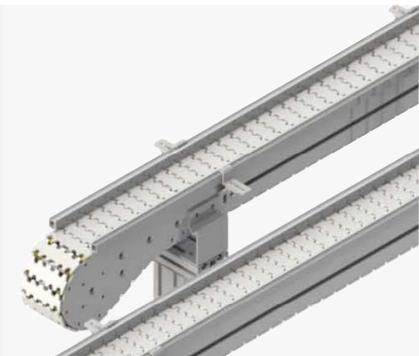
Pallet Conveyor System

Heavy Duty Roller Conveyor System

Flexible Chain Conveyor System

Rail Guide Conveyor System

Belt Conveyor System



# VT CONVEYOR SYSTEM

# Product Series – Pallet Conveyor System



## Character:

- Modular Design: Easy to set up and maintaining.
- Flexible Layout: Support compact production area.
- Low Dust: 1000 dust level, adapt to clean workshop.
- ESD Standard: Adapt to electronics production.
- Multiple Size: Cover most of the workpiece size.
- Accumulation: Satisfy different production cycle time requirement.

## Technical Specification

Spec		Timing Belt Conveyor	Flat Belt Conveyor	Plastic Chain Conveyor	Roller Chain Conveyor
Transfer Medium		Timing Belt	Flat Belt	Plastic Top Chain	Metal Chain
Pallet Width Bwt	mm	160≤Bwt≤1200			
Pallet Length Lwt	mm	160≤Bwt≤1200			
Conveyor Length L	mm	240≤L≤6000	2000≤L≤15000	500≤L≤6000	300≤L≤18000
Allowed Payload	kg/cm	1	1	0.5	2
Allowed Total Load	kg	60	150	150	2200
Conveyor Speed V	m/min	3≤L≤24			
Drive Method		3 Phase Motor			
Motor Power	W	200W	750W	200W	750W
Positioning Accuracy	mm	±0.1			
Accumulation		Yes			
Dust Level		10000	10000	1000	10000
ESD		Yes			

## Pallet Conveyor System Module



Flat Belt Conveyor



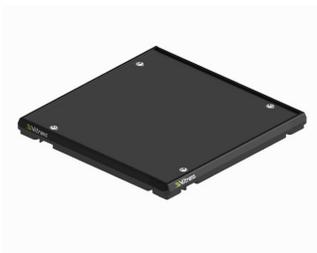
Timing Belt Conveyor



Plastic Chain Conveyor



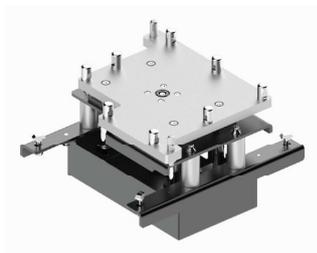
Roller Chain Conveyor



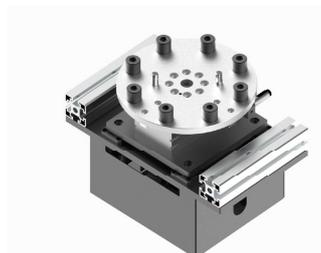
Workpiece Pallet



Lift & Transfer Unit



Lift & Locate Unit



Lift & Rotate Unit



Servo Lifter



Pneumatic Lifter



Belt Curve



Flat Top Chain Curve

## Application



New Energy Industry



Automotive Industry



House Appliance Industry



Electronics Industry



Other Product Industry

# Product Series – Heavy Duty Roller Conveyor System



## Character :

- Load capability is 600kg/m. Allowed total load of each drive is 4000kg.
- Power transferred by gear and king shaft to increase efficiency.
- Accumulation conveyor. The clutch mechanism of each roller can be used to adjust the drive force.
- Adapt to production line has ESD requirement.
- Widely used for big and heavy product assembly line.
- Flexible modular design to fit different layout, easy to be set up and maintaining.

## Technical Specification

Spec	Heavy Duty Roller Conveyor System
Conveyor Width	300~1200mm
Power Transfer Method	Gear and king shaft / Gear and chain
Roller Pitch	≥150mm
Conveyor Speed	6~18m/min
Load Capability	100kg/Each Roller
Roller Material	Stainless Steel
Accumulation	Yes

## Heavy Duty Roller Conveyor System Module



Heavy Duty Lift & Transfer Unit



Heavy Duty Lift & Locate Unit



Heavy Duty Turn Table



Heavy Duty Roller Conveyor



Diverter and Converge Unit



Pneumatic Stopper

## Application



New Energy Industry



Automotive Industry



House Appliance Industry



Other Product Industry

# Product Series – Flexible Chain Conveyor System



## Character:

- Clean: Conveyor is built with high strength white plastic chain and aluminum profile section. No need lubrication.
- Quiet: operating noise <30db.
- Flexible: Conveyor, horizontal curve, vertical curve and other mechanism are all modular designed. It can construct a compact conveying system in a limited production area.
- Convenient: The conveyor system is easy to be set up, no need any special assist tools.
- Stable: Product can be transferred without falling or collapsing.

## Technical Specification

Spec	Flexible Chain Conveyor
Chain Width	43mm/63mm/83mm/103mm/175mm/295mm
Chain Material	POM/Stainless Steel
Chain Type	Common/Food Grade
Conveyor Section Profile	Aluminum/Stainless Steel
Conveyor Speed	3~50m/min
Horizontal Curve Angle	30°/45°/60°/90°
Vertical Curve Angle	5°/7°/15°/30°/45°/60°/90°

## Flexible Chain Conveyor System Module



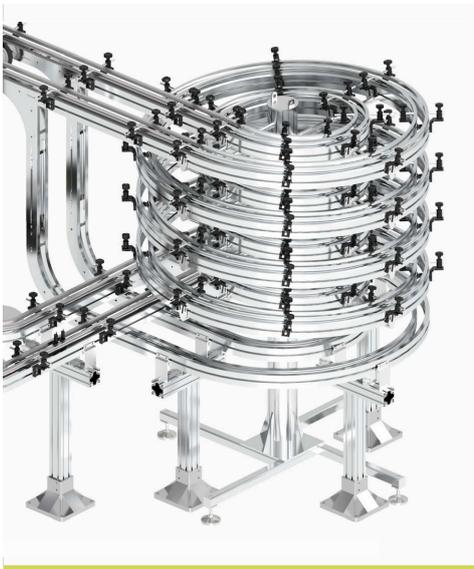
Curve



Conveyor Support



Product Guide Profile



Spiral Buffer Mechanism



Clamping Mechanism



Drive Unit

Return Unit

## Application



Food Industry



Medicine Industry

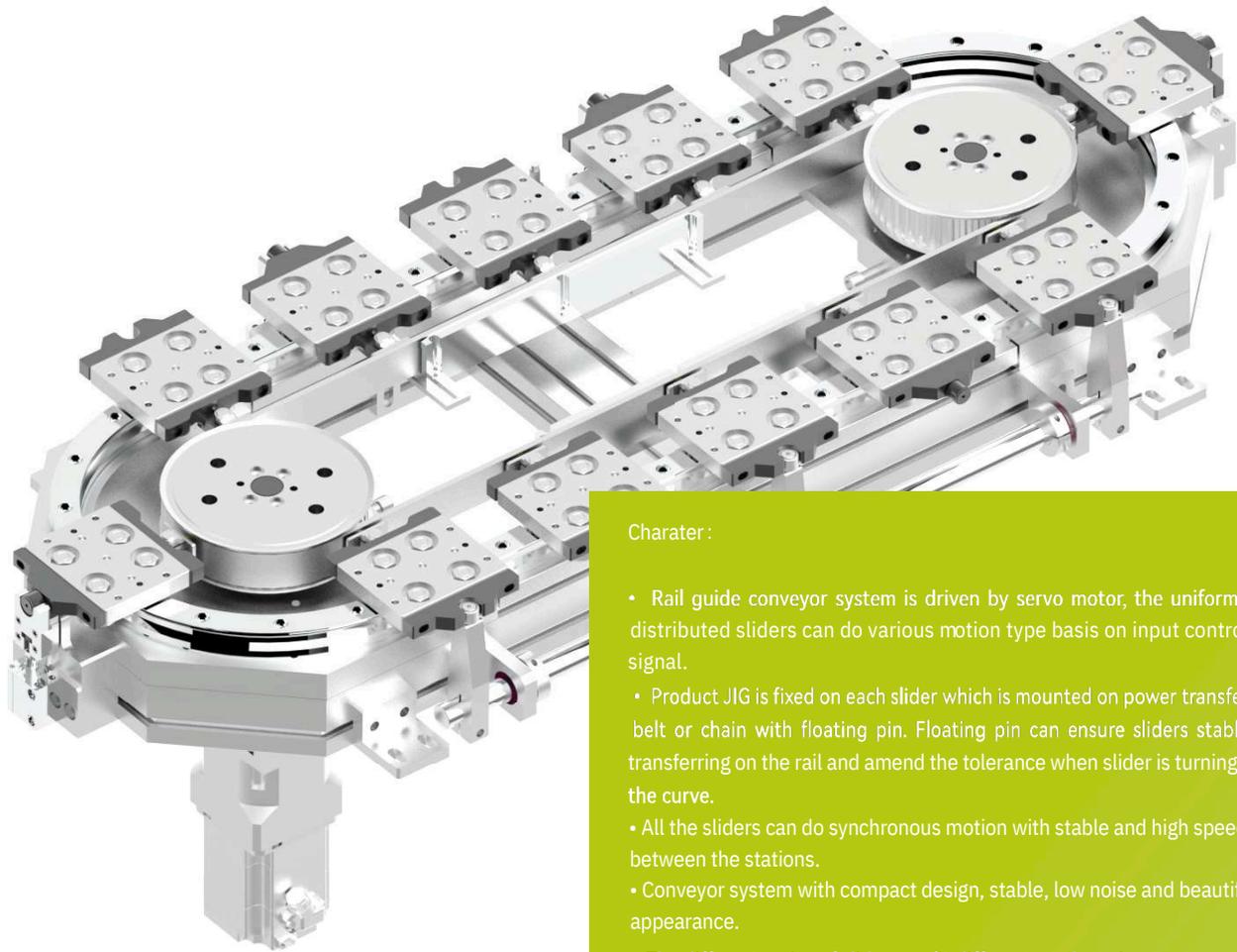


Packing Industry



Other Product Industry

# Product Series – Rail Guide Conveyor System



## Character :

- Rail guide conveyor system is driven by servo motor, the uniformly distributed sliders can do various motion type basis on input control signal.
- Product JIG is fixed on each slider which is mounted on power transfer belt or chain with floating pin. Floating pin can ensure sliders stable transferring on the rail and amend the tolerance when slider is turning in the curve.
- All the sliders can do synchronous motion with stable and high speed between the stations.
- Conveyor system with compact design, stable, low noise and beautiful appearance.
- The different series of slider can fit different product size.
- Adapt to small product assembly line or testing line. Workpiece can transfer on it with high speed.

## Technical Specification

Spec	Rail Guide Conveyor System
Work Station Quantity	2 to 30pcs
Slider Pitch	120~1600mm
Allow load of each slider	≤20kg
Slider Width	80/116mm
Slider Length	100/105/145/150mm
Conveyor Speed	0~1m/s
Positioning Method	Pneumatic Positioning Unit
Positioning Accuracy	±0.05mm
Rail Diameter	255/300/351/468/612 mm
Drive Method	Servo motor + Reducer
Installing Type	Horizontal / Vertical

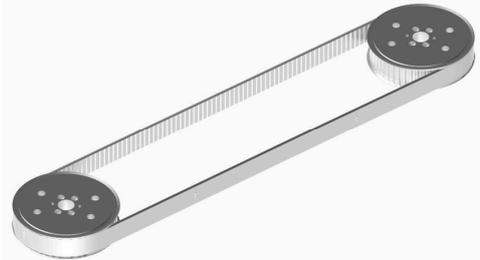
## Rail Guide Conveyor System Module



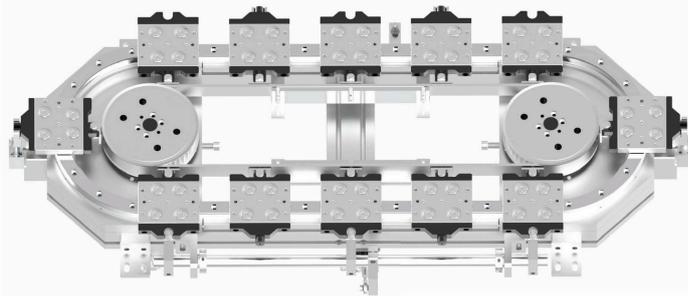
Drive Unit



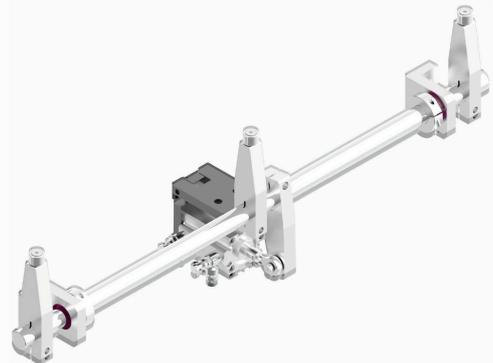
Slider



Transfer Mechanism



Ring Shape Rail Guide Conveyor System



Pneumatic Positioning Unit

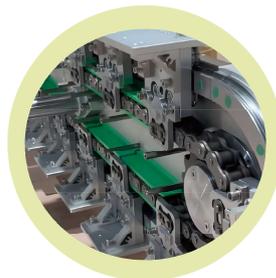
## Application



Automotive Industry



Semiconductor Industry

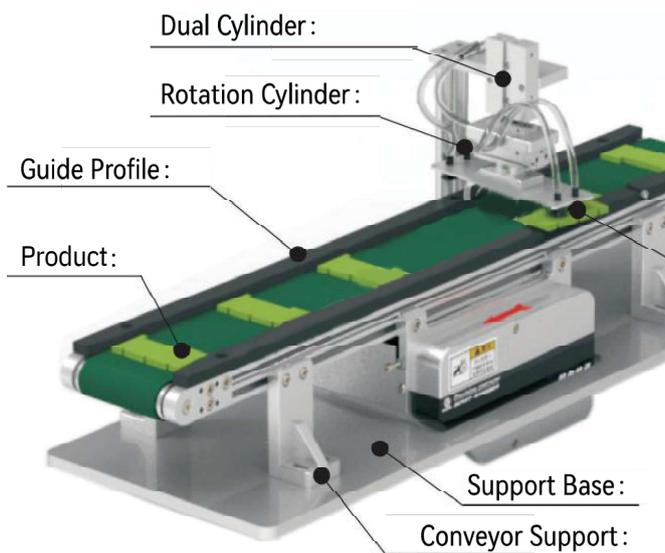
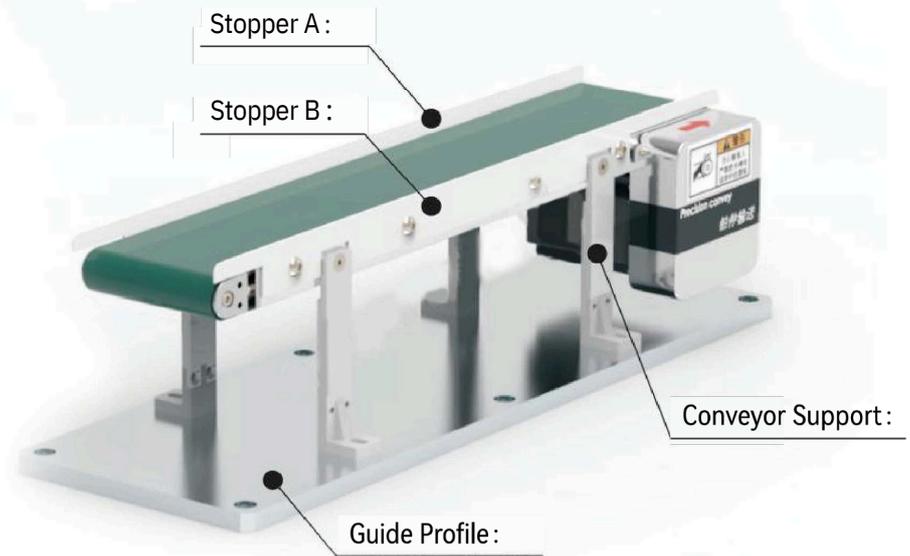


Electronics Industry



Other Product Industry

# Product Series – Belt Conveyor System



### Character :

- Compact design, beautiful appearance, adapt to limited production area.
- Drive unit can be placed at conveyor end, middle of the conveyor, or inside the conveyor.
- Multiple guiding accessories can be compatible with different product sizes.
- Multiple belt options can be chosen to meet food, medicine and other product manufacturing requirement.
- Load Capability: 5 to 200kg. •
- Speed Range: 6 to 30m/min.

## Technical Specification

Spec	Standard Belt Conveyor	Build-in Drive Belt Conveyor	Dual Lens Timing Belt Conveyor
Transfer Medium	Flat Belt	Flat Belt	Timing Belt
Drive Method	Speed Adjustable Motor /Stepper Motor/Servo Motor	DC Electric Roller	Speed Adjustable Motor /Stepper Motor/Servo Motor
Drive Location	End of conveyor or Middle of conveyor	inside the conveyor	End of conveyor or Middle of conveyor
Load Capability	5~200kg	5~100kg	5~100kg
Conveyor Speed	0~60m/min	0~50m/min	0~60m/min
Conveyor Width	60~800mm	150~800mm	80~600mm
Conveyor Length	120~6000mm	200~3000mm	255~5000mm

## Belt Conveyor Type



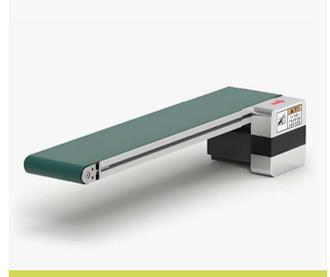
Motor at the end of conveyor



Motor at the middle of conveyor



Conveyor with sharp end



Overall belt type



Conveyor with light



Build-in Drive Belt Conveyor



Build-in Drive overall belt type



Dual Lens Timing Belt Conveyor

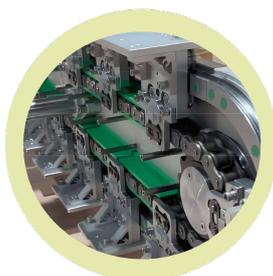
## Belt Type

Belt Parameter				Belt Parameter			
<ul style="list-style-type: none"> <li>Material PU</li> <li>Thickness 0.9mm</li> <li>Surface: Matte green</li> <li>Character Common</li> </ul>	<ul style="list-style-type: none"> <li>Material PU</li> <li>Thickness 0.9mm</li> <li>Surface: Green</li> <li>Character Common</li> </ul>	<ul style="list-style-type: none"> <li>Material PU</li> <li>Thickness 1.0mm</li> <li>Surface: Brown</li> <li>Character Non adhesive</li> </ul>	<ul style="list-style-type: none"> <li>Material PU</li> <li>Thickness 0.8mm</li> <li>Surface: Matte black</li> <li>Character ESD</li> </ul>	<ul style="list-style-type: none"> <li>Material PU</li> <li>Thickness 1.2mm</li> <li>Surface: Matte white</li> <li>Character Food grade</li> </ul>	<ul style="list-style-type: none"> <li>Material: Double sided gauze</li> <li>Thickness: 0.5mm</li> <li>Surface: Dark green</li> <li>Character: Sliding type</li> </ul>	<ul style="list-style-type: none"> <li>Material: PU</li> <li>Thickness 1.0mm</li> <li>Surface: Matte blue</li> <li>Character: Anti-oil type</li> </ul>	<ul style="list-style-type: none"> <li>Material: PU</li> <li>Thickness 1.0mm</li> <li>Surface: Green cloth pattern</li> <li>Character: Incline type</li> </ul>
H	H6	B	D	F	U	M1	Q2
							

## Application



House Appliance Industry



Electronic Appliance Industry



Other Product Industry

## Vitrans Conveyor – Priority option for global top 100 enterprises

Vitrans Conveyor

Web: [www.vitrans-conveyor.com](http://www.vitrans-conveyor.com)



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