SMART CONVEYOR MANUFACTURER





- SCAN | WEIGH | SORT | PALLETIZE ------

ailongsmart.com

CATALOG

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The belt conveyor uses continuous and flexible flat belts to convey cartons and boxes. It can be selected to be driven by motor or electric roller. The friction force between the roller and the belt drives it forward.



INTRODUCTION



Flat belt conveyor

Load capacity:	0-100 kg/m	Motor brand:	SEW/CPG
Linear speed:	0–2 m/s adjustable	Control box:	Delta
Drive:	Motor / Electric roller	Belt material:	PVC/PU/rubber
Rated voltage:	Motor: 220/380 V Electric roller: 24 V	Body material:	Steel/stainless steel /aluminum profile
Rated power:	0.37-2.2 KW	Sensor brand:	Autonics





Inclined belt conveyor

Load capacity:	0-60 kg/m	Motor brand:	SEW/CPG
Linear speed:	0–1 m/s adjustable	Control box:	Delta
Drive:	Motor / Electric roller	Belt material:	Rubber
Rated voltage:	Motor: 220/380V Electric roller: 24V	Body material:	Steel/stainless steel
Rated power:	0.37-2.2 KW	Sensor brand:	Autonics



Narrow belt conveyor

Load capacity:	0-30 kg/m	Motor brand:	SEW/CPG
Linear speed:	0–1.5 m/s adjustable	Control box:	Delta
Drive:	Motor / Electric roller	Belt material:	PVC/PU
Rated voltage:	Motor: 220/380 V Electric roller: 24 V	Body material:	Steel/stainless steel
Rated power:	0.37-1.5 KW	Sensor brand:	Autonics





The roller conveyor is composed of rollers, support legs and driving devices, etc. There are advantages such as large load capacity, fast speed, light operation and long life.









Curved roller conveyor

Load capacity:	0-500 kg/m	Motor brand:	SEW/CPG
Linear speed:	0–1 m/s adjustable	Control box:	Delta
Drive:	Motor / Electric roller	Drive material:	Chain/poly-vee belt
Rated voltage:	Motor: 220/380 V Electric roller: 24 V	Body material:	Steel/stainless steel /aluminum profile
Rated power:	0.075-3.7 KW	Sensor brand:	Autonics







The chain conveyor is mainly used to convey heavy goods carried by pallets, which can efficiently move, divert and buffer. The load of the whole system can reach up to 3t, and it can be easily running with speed 20m/min.

	Chain conve	eyor	
Load capacity:	0-3000 kg	Motor brand:	SEW/CPG
Linear speed:	0-0.5 m/s adjustable	Control box:	Delta
Drive:	Motor	Drive material:	Speed/duplex chain
Rated voltage:	220/380 V	Body material:	Steel/stainless steel
Rated power:	1.5-3.7 KW	Sensor brand:	Autonics





Load capacity:	0-500 kg	Motor brand:	SEW/CPG
Linear speed:	0.2-0.6 m/s adjustable	Control box:	Delta
Drive:	Motor	Drive material:	10/16B-1/2 chain
Rated voltage:	220/380 V	Body material:	Steel/stainless steel
Rated power:	0.1-1.5 KW	Sensor brand:	Autonics



Load capacity:	0-500 kg	Motor brand:	SEW/CPG
Linear speed:	0.2-0.6 m/s adjustable	Control box:	Delta
Drive:	Motor	Drive material:	10/16B-1/2 chain
Rated voltage:	220/380 V	Body material:	Steel/stainless steel /aluminum profile
Rated power:	0.1-1.5 KW	Sensor brand:	Autonics





The flexible conveyor is usually used for loading and unloading in workshops and warehouses. It can also be applied to ship or receive in packing/conveyor lines. There is manual or electric type.



Load capacity:	0-100 kg	Motor brand:	SEW/CPG
Linear speed:	0-1.5 m/s adjustable	Control box:	Delta
Drive:	Motor / Electric roller	Drive material:	Poly-vee belt
Rated voltage:	Motor: 220/380 V Electric roller: 24 V	Body material:	Steel/stainless steel
Rated power:	75-120 W	Sensor brand:	Autonics





Loading conveyor

The loading belt conveyor and the flexible conveyor are usually used in combination. There are advantages such as high sorting capacity, which can be max.15,000 pcs/h.



Loading conveyor

Load capacity:	0-100 kg	Motor brand:	SEW/CPG
Linear speed:	0-1.5 m/s adjustable	Control box:	Delta
Drive:	Motor	Drive material:	Hydraulic type
Rated voltage:	220/380 V	Body material:	Steel/stainless steel
Rated power:	1.5-2.2 KW	Sensor brand:	Autonics





Telescopic conveyor

The total length of the telescopic conveyor can reach up to 28m. The telescopic section is equipped with safety devices such as lighting, anti-collision, and emergency stop. Suitable for conveying goods of any shape.



Telescopic conveyor

Load capacity:	0-60 kg/m	Motor brand:	SEW/CPG
Linear speed:	0-1 m/s adjustable	Control box:	Delta
Drive:	Motor	Drive material:	Height: hydraulic type
Rated voltage:	220/380 V	Body material:	Steel/stainless steel
Rated power:	1.1-2.2 KW	Sensor brand:	Autonics





The lifting conveyor is suitable for operations between multiple floors. It is widely used in distribution centers, warehouses, and factories. There are advantages such as fast safety door, anomaly detection and other safety design.



INTRODUCTION

Load capacity:	0-60 kg/m	Motor brand:	SEW/CPG
Linear speed:	0-1 m/s adjustable	Control box:	Delta
Drive:	Motor	Drive material:	Reciprocating / Continuous
Rated voltage:	ated voltage: 220/380 V		Steel/stainless steel
Rated power:	1.1-3.7 KW	Sensor brand:	Autonics





Scanning & weighing system

INTRODUCTION



- Scan, measure volume and weight, upload
- Industrial/smart camera, accuracy 99.99%
- Dynamic weighing, accuracy up to 10g
- Integration with other systems



Scanning efficiency	Max.10000 pcs/h
Measurement	Max.100 kg
Conveying speed	0–2 m/s
Software kit	Scan and monitor platform
Protocol	HTTP/API, etc.





Transfer sorting





Lift & transfer	for heavy goods
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- Convey cartons, boxes and flat bottom goods
- Driven by motor / electric roller
- PLC/Industrial control/Software control

Weight range	Max.3000 kg
Rotating speed	0.2 - 0.3 m/s
Rotating angle	90°
Goods dimension	Max.L2500xW1400mm Min.L250xW250mm



Swing-arm sorting





Push goods to the corresponding position through the swing arm

- Convey all kinds of irregular goods
- Simple structure, but high accuracy
- PLC/Industrial control/Software control

Weight range	Max.30 kg	
Sorting efficiency	3000 pcs/h(single arm)	
Swing speed	≤1 s	
Goods dimension	Max. L1500xW800mm Min. L150xW150mm	

Guide-wheel sorting





Multi-directional divers	ion by guide wheels
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Convey clothes, books and flat bottom goods

Easy for maintenance by monitoring the running status

PLC/Industrial control/Software control

Weight range	Max.100 kg
Sorting efficiency	Max.8000 pcs/h
Rotating speed	1.8 - 2.5 m/s
Goods dimension	Max.L1400xW1400mm Min.L100xW100mm



Robot-arm sorting



The software will control robot arms

Convey clothes, books and flat bottom goods

High accuracy for complex application scenarios

PLC/Industrial control/Software control



Weight range	Max.1000 kg
Sorting efficiency	1600 pcs/h
Control method	By color, volume, weight, barcode, etc.
Goods dimension	Max.L1400xW1400xH1400mm Min.L100xW50xH50mm

Implementation



- Research requirements and systems [report]
- Make mechanical solution [drawing]
- Make software solution [prototype]
- Product and program [finished products]
- Test internally [testing report]
- Operate on-site [delivery]
- S Free maintenance in one year
- Free software upgrading support
- S Free consulting for business/data analysis







INTRODUCTION



Palletizing by scanning or sensing

Convey cartons/bottles/bags/buckets, etc.

Sorting-loading-handling after production

PLC/Industrial control/Software control



Palletizing efficiency	Max.850 pcs/h		
Calibration method	Automatic		
Protocol	Ethernet		
Compatible robot	YASKAWA, ABB, KUKA, etc.		





Custom product



Bao Steel Heavy-duty centering equipment



Huineng New Material Positioning and packaging system



Beinuo Wind Machinery Custom palletizing system







Structure



Example

	-						
仓储管理	~	称重	按单打印				
由 💼 拣货	^	关闭					
田●■复核		Zing					
田 📄 打包							
日 圖 称重							
一面 称重							
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■ 整箱称重							
- 11 复核打包称重				是否记录耗材		先称重 🗔	
- 111 交接							
- 町 出库拦截				箱型			
─Ⅲ 物流单登记							
- 📰 波次单完成扫描				包裏单号			
- 🌆 线下出库				标准重量(kg)			
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