



# TUKU GARMENT CONVEYOR SYSTEM

*Frontier of Garment Conveyor Industry*

## TUKU SINGAPORE PTE LTD

---

**ADDRESS**

190 Woodlands Industrial Park E5  
#04-12 Woodlands Bizhub  
Singapore 757516

**WEBSITE**

[www.tuku-singapore.com](http://www.tuku-singapore.com)

**EMAIL ADDRESS**

[yongjiarong@gmail.com](mailto:yongjiarong@gmail.com)

**TELEPHONE**

+65-66849982

**MOBILE/WHATSAPP**

+6591847956

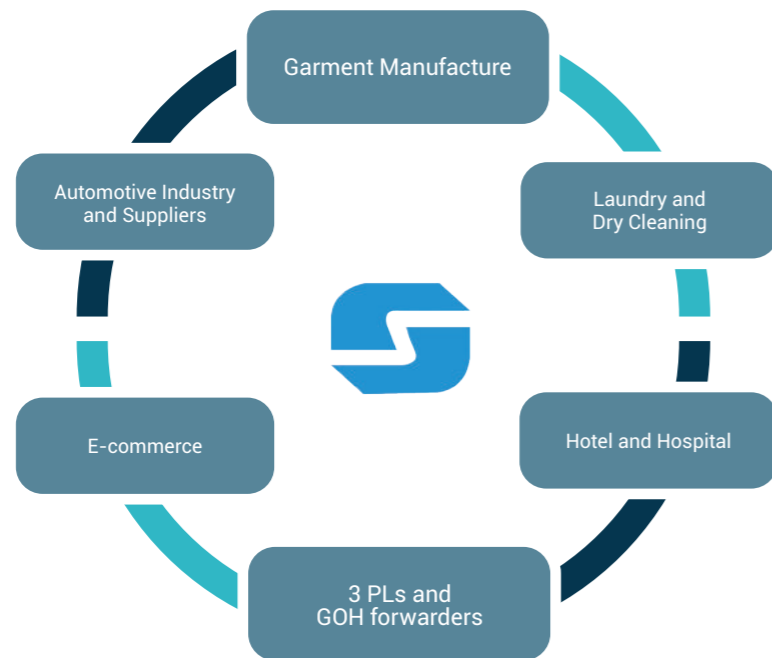
01

# ABOUT US

TUKU Singapore Pte Ltd is the original designer and manufacturer of garment conveyor system . All products are developed from years of experience in the garment processing, fashion logistic, e-commerce warehousing , laundry industry as well as from requests for overhead conveyor improving quality and efficiency by customer throughout the world.

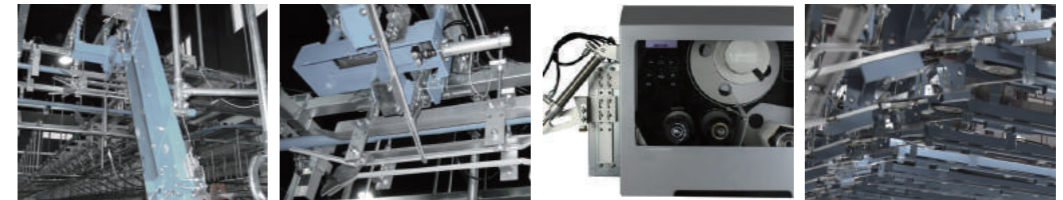
For nearly 10 years, we have been recognized as an innovative partner to the garment conveyor industry, TUKU has a proven track record in providing garment storage conveyor, garment sorting conveyor, garment order assembly conveyor and related software solutions.

TUKU conveyor is designed to foster the growth of its customer by delivering advances functionality, rapid implementation, high levels of usability and a state-of-the art technology standards. For business that choose either to obtain overhead rail or to garment on hanger warehouse automation system, TUKU will bring together the people, methodology, technology and experience to develop quality solutions on time based on in-depth knowledge of industry.



02

# BATCH SORTING CONVEYOR



LOADING ARM

AUTO FEEDER

AUTO STICKER PRINTER

AUTO OFFICED CONVEYOR

Batch Sorting Conveyor Systems were designed to improve productivity by providing a more efficient means of sorting garments on hangers. Common applications include: high volume industrial laundries, institutional laundries, dry cleaners and retail organizations requiring an automated sorting, storage and retrieval capability. **RFID** or **Barcode** can be integrated with the system.

# STAINLESS BELT CONVEYOR - SBC

SBC is an automated solution consisting of conveyor belts produced by TUKU, aimed at optimizing the work flow of each business. With SBC conveyor belts different types of objects with different size and weight can be transported to facilitate the stages of production and storage in order to save time, space and personnel.



Stainless Steel Belt



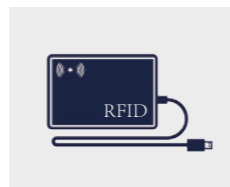
Stainless Punch Piece Belt



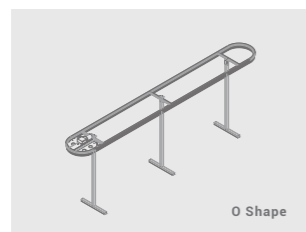
MANUAL SWITCH



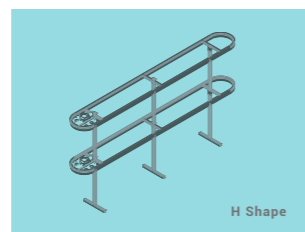
DIGITAL CONTROLLER



RFID



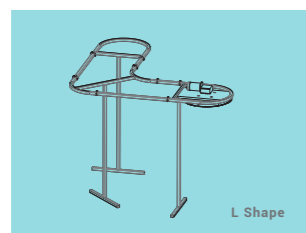
O Shape



H Shape



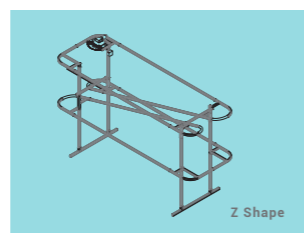
X Shape



L Shape



U Shape



Z Shape

# PRODUCT SPECIFICATIONS

## Z SHAPE

	mm	mm	mm
950	2880	2100	3000-3200
1000	3090	2100	3000-3200
1050	3290	2100	3000-3200
1100	3493	2100	3000-3200
1150	3701	2100	3000-3200
1200	3903	2100	3000-3200
1250	4111	2100	3000-3200
1300	4391	2100	3000-3200
1350	4520	2100	3000-3200
1400	4692	2100	3000-3200
1450	4900	2100	3000-3200
1500	5102	2100	3000-3200
1550	5316	2100	3000-3200
1600	5524	2100	3000-3200
1650	5732	2100	3000-3200
1700	5940	2100	3000-3200
1750	6100	2100	3000-3200
1800	6308	2100	3000-3200
1850	6516	2100	3000-3200
1900	6724	2100	3000-3200
1950	6932	2100	3000-3200
2000	7140	2100	3000-3200

## X SHAPE

	mm	mm	mm
660	3095	1500	3000-3200
700	3341	1500	3000-3200
750	3649	1500	3000-3200
800	3957	1500	3000-3200
850	4265	1500	3000-3200
900	4576	1500	3000-3200
950	4881	1500	3000-3200
1000	5199	1500	3000-3200
1050	5507	1500	3000-3200
1100	5815	1500	3000-3200
1150	6123	1500	3000-3200
1200	6431	1500	3000-3200
1250	6739	1500	3000-3200
1300	7047	1500	3000-3200
1350	7355	1500	3000-3200
1400	7663	1500	3000-3200
1450	7971	1500	3000-3200
1500	8279	1500	3000-3200
1550	8587	1500	3000-3200
1600	8895	1500	3000-3200
1650	9203	1500	3000-3200
1700	9511	1500	3000-3200

## U SHAPE

	mm	mm	mm
500	2650	2250	2000
550	2950	2250	2000
600	3250	2250	2000
650	3550	2250	2000
700	3850	2250	2000
750	4150	2250	2000
800	4450	2250	2000
850	4750	2250	2000
900	5050	2250	2000
950	5350	2250	2000
1000	5650	2250	2000
1050	5950	2250	2000
1100	6250	2250	2000
1150	6550	2250	2000
1200	6850	2250	2000
1250	7150	2250	2000
1300	7450	2250	2000
1350	7750	2250	2000
1400	8050	2250	2000
1450	8350	2250	2000
1500	8650	2250	2000
1550	8950	2250	2000

## O SHAPE

Slot	mm Length	mm Width	mm High
250	2638	800	2000
280	2998	800	2000
300	3238	800	2000
310	3358	800	2000
320	3478	800	2000
340	3718	800	2000
360	3958	800	2000
380	4198	800	2000
400	4438	800	2000
420	4678	800	2000
440	4918	800	2000
460	5158	800	2000
480	5398	800	2000
500	5638	800	2000
520	5878	800	2000
540	6118	800	2000
560	6358	800	2000
580	6598	800	2000
600	6838	800	2000
620	7078	800	2000
640	7318	800	2000
660	7558	800	2000

05

## ORDER CONSOLIDATE CONVEYOR

Order consolidate system used with preprinted tags to automate the process. This process is ideal for multi-store or high volume operations. The operation of both TUKU collection app and order consolidate system data communicate through cloud drive database so the customer don't need host an expensive server. The operator use the TUKU collection app on IOS or android phone. No computer, printer and scanner required in the collection shops.

In the sorting section at the factory, As tracking tag barcode is scanned, Order consolidate system automatically assigns a slot number on the conveyor to the invoice. The computer screen will show the slot number. The conveyor automatically moves to the assigned slot number. The sorting staff then hang the garment at the assigned slot. Once the quantity under the same laundry order is sufficient, the computer will generate a reminder. The sorting staff gathers all the quantity, together with the invoice, passes over to another station to wrap with relevant plastic covers for each outlet. The process of matching garments belonging to same laundry order is done in a computerized way by scanning. High accuracy can be achieved. Using this method, a sorting staff can sort 250 pieces of finished garment per hour without much movements to search all over the stations.



1. Apply the barcode or RFID to the garment.



2. Scan bar coded garments into system. Garment preferences are noted.



3. Clean and press garments.



4. Scan the barcode and the assembly conveyor begins to move, the correct slot number comes forward for loading.



5. Once final item of an order is scanned, the computer signals the operator and a receipt is printed automatically.



6. The operator removes the completed order for bagging.

06

## ACCESSORIES



AZ WCD Codabar Tag  
( 10,000pieces per box )  
Length: 130mm  
Width:9.6mm

8 colour available:



Batch Hook Easy for order consolidate



Tie Hanger and Cover  
2500 pieces per carton box



Tag Stapler



07

## TROLLEY CONVEYOR BRUSH/TROLLEY INCLINE/AUTOSWITCH

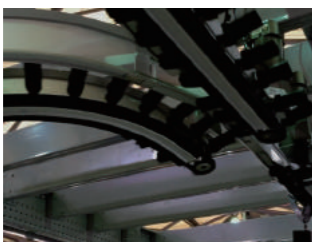


Trolley conveyor system worked with the Aluminium-Rail track is a centrally supported rail system avoid derailing. The trolleys could go together to their destination run bi-directional to transport material in train formations or individually. The trolley system can Modular and economical modification/upgrade of any section is possible without any change in organisational structures or trolleys.



Thanks for the mechanic and automated switches the system got an unlimited combination of tracks going "left" and "right"; even a "turning" of trolleys or trolley trains is possible.

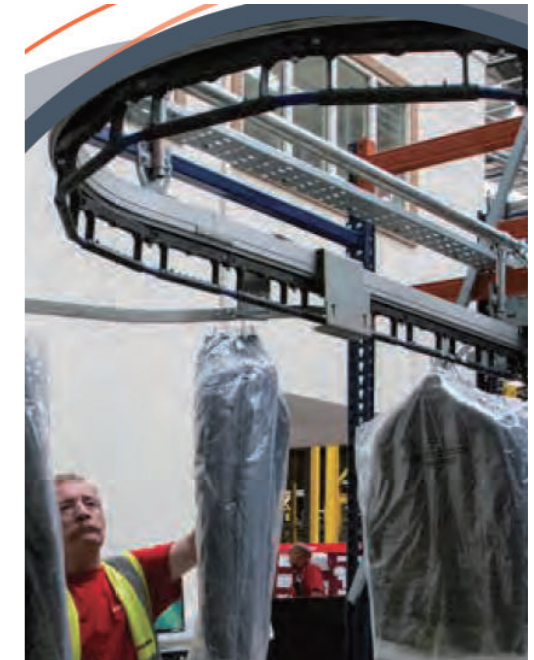
Trolley incline conveyor has allow single or multiple joined hangers to be convey through any levels and in opposite direction.



Brush conveyor also can be used for trolley automated drive.

08

## AUTO CONVEYOR



Auto conveyor provides new possibilities for flexible transport of hanging goods. Ideal for high production plants, this unit is able to maintain the production rates your facility requires. The loader comes with required sensors and can either be installed as a stand alone unit or as a fully integrated unit. The universal usability increases efficiency especially when dealing with fashion and in laundry. High-quality materials ensure the stable mechanical design of this sophisticated modular system. transports and sorts single garments on to hangers on horizontal and vertical conveyors.

09

## SCREW CONVEYORS



Screw conveyor provides positive transport for hangers. Direct Drive Power unit turns spiral in place, moving items down the line. Single Direction system, no return line needed. Track mounts on angle suspension frame, easily supported from floor or ceiling.

Forward Speed: Up to 4m per minute with overload clutch included.

Left or Right hand spiral twist available to suit application.

Up to 90° Horizontal and 20° Vertical turns, for design flexibility.



10

## PIN CONVEYOR

The pin conveyor transports goods by means of pin ledges that are mounted on roller chains. It is used as a take-away or connecting conveyor. Other fields of applications of the pin conveyor are:

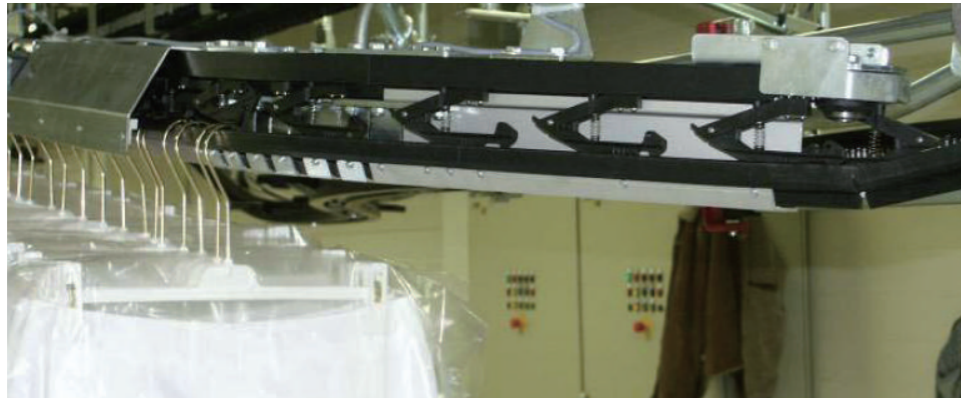
- Cycle conveyor
- Buffer conveyor
- Telescope conveyor

The pin conveyor is extremely space-saving because the chain moves forwards and backwards on the same profile. This conveyor can be applied horizontally and vertically. The pin conveyor is especially suitable as a take-away conveyor for storage areas as almost all standard hangers can be hung from the side. Part of the standard layout are functional units such as transfers to the right and left as well as intersections.



11

## CLIP ACCUMULATE CONVEYOR



Clip conveyor including an endless, driven pulling chain which can be moved along a specified path, supporting blocks mounted to the pulling chain, a number of drag catches mounted to the pulling chain in mutually overlapping relation so as to be alternatively offset in a left direction and a right direction, and a rail system disposed below the path.

As the garments are brought in with the clips they are bunched up against the stop position compressing the garments into a smaller area.

Clip Conveyor is be used as mere conveyor transport from A to B or as a takeaway conveyor or a sorter; as an accumulation conveyor it is designed so that the accumulation pressure is minimal.

12

## VERTICAL INCLINE CONVEYOR

Vertical conveyor is used for the vertical transport of hanging items where a maximum height difference has to be reached over short distances.

Photoelectric sensors control smooth feed and discharge of hanging items to and from the conveyor platforms.



13

## MECHANICAL SORTING CONVEYOR

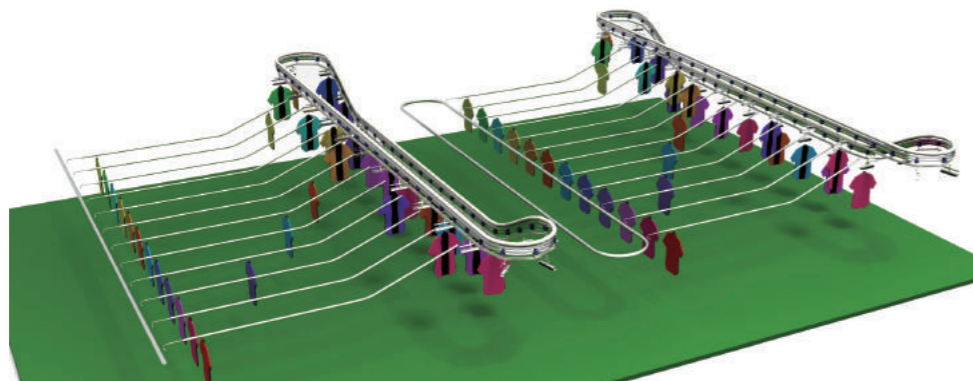


Garment Sorting Conveyor is a continuous moving rail system with 12 slots on each frame, assisting in disseminating garments from point to point.

Each slot in the frame (1 – 12) denotes a designated location within the process, which simply means, lesser trolleys maneuvering or time taken to transport one load of processed garment to another department. Operator will hang completed garments back onto the main stream; on the specified slot of the next section and it will be automatically distributed.

Built with thoughts on how area space is essential within the factory, the pendant of the conveyor chain will move just below the ceiling height at non-working areas.

Highly customizable with modular structure, height and rail length, it will be constructed after the main equipment has been set up.



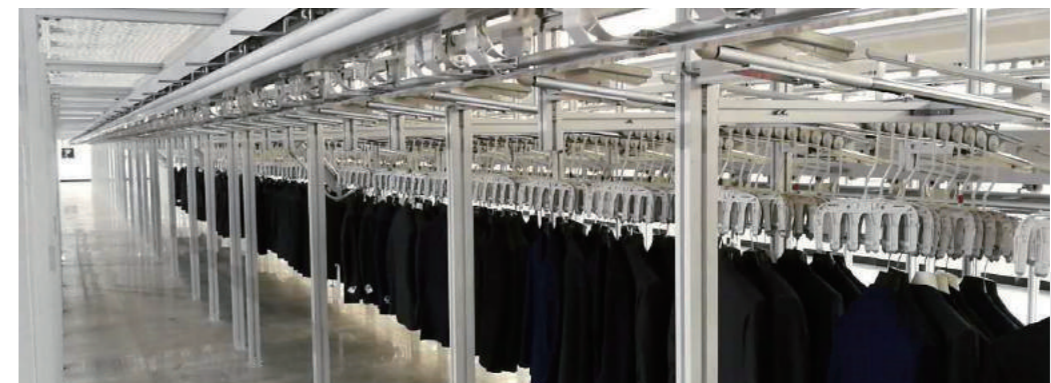
14

## RFID PROCESSING CONVEYOR

More than just an overhead garment rail system, **TUKU Smart Hanging Conveyor system using RFID technology** offers automated garment handling solutions designed to optimise workflow and maximise productivity.

The system can be easily modified to suit any change or expansion in the Process, Pressing & Finishing, Quality Control, Sorting, Assembling & Packing line. Production processes can be monitored based on real-time data captured which allows effective cost management.

With shorter production lead time and improved workplace ergonomics, handling efficiency is expected to increase by 30%.





# AUTO PACKING

As the garment loads from the conveyor system, the machine automatically detects it, positions the bag, senses the garment length, top seals and cuts the bag to length, then back onto the conveyor system.

Adjustments can easily be made from the operator terminal to suit different garment types, coat hangers, seal types or bag lengths.





**SEMI-AUTO**

POWER	3ph 380 V
POWER CONSUMPTION	0.35KW
WEIGHT	270Kg
AIR CONSUMPTION	1.7cfm
AIR PRESSURE	85 psi / 0.6 MPa
AIR CONNECTION	8mm
DIMENSION (W x D x H)	825x880x1900 (mm)



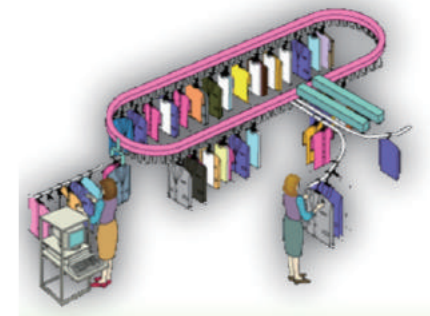
**AUTO**

POWER	3ph 380 V
POWER CONSUMPTION	2.0KW
WEIGHT	380Kg
AIR CONSUMPTION	1.7cfm
AIR PRESSURE	85 psi / 0.6 MPa
AIR CONNECTION	8mm
POLY WIDTH	600mm
PACKING LENGTH	1.5m
DIMENSION (W x D x H)	825x880x1900 (mm)

# UNIFORM MANAGEMENT SYSTEM

TUKU Uniform System help the uniform management in 4 primary ways:

- Reduction of Lost Garments - Savings resulting from knowing which employees have which garments and holding employees accountable for garments they lose.
- Reduction in Purchasing - Savings made by keeping the inventory at optimal levels, and not purchasing more garments than you need.
- Vendor Accountability - Savings resulting from knowing which vendor has which garments, and holding vendors accountable for garments they lose.
- Labor Reduction - Savings through RFID driven automation of uniform processing and accounting tasks.



# SMART WARDROBE SYSTEM

TUKU smart wardrobe system offers many practical advantages and makes the most of the space available, even when inconvenient, awkward or inaccessible.

Contrary to what one may think, this system is adapted to smaller houses, precisely because space is limited and has to be used in the most rational way possible.

The garments hang on a conveyor belt (or two, stacked vertically to separate shirts and pants) and, at the push of a button, rotate around to provide easy, organized access to whatever you're in the mood for that day. Plus, as opposed to a walk-in closet, the Dynamic Closet's ability to pull garments from inaccessible areas actually frees up usable space.

System also has ios and android app that will remember each outfit's location on the rack(s), and access your favourites without the need to look for them.

