



THE LEADER IN THE CUSTOMIZATION OF
EASY-TO-CLEAN HOMOGENEOUS TAPE SOLUTIONS



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The leader in solution customization

PLASTLINK CHAIN BELT

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Cooperation Is Based On Trust. Trust Is Based On Service And Quality.

As one of the auxiliary materials in direct contact with products, the food conveyor belt has changed from PVC material to TPU material, which fully demonstrates the importance customers attach to food hygiene and safety. With the promulgation of various food safety standards, the traditional polyester fabric conveyor belt can no longer meet the needs of the majority of users. And, HealthPro Health Pro antibacterial easy to clean homogeneous belt was born.

HealthPro series of products can provide customers with a full range of high-quality solutions including the belt + chain plate + supporting components + technical support and training of the whole line of products.

HealthPro

Easy Clean Homogeneous Belt

HealthPro products have higher industry relevance and stronger scene directivity, and can choose delivery solutions according to the mechanical specifications of the food, the use environment, texture, match and load, as well as the required output volume, helping food manufacturers to maintain high hygiene standards, reduce the risk of food contamination, and better provide safe food to the market.

PRODUCT FEATURE

A single fabric-free material reduces contamination of the conveyor belt



● Single fabric-free material



● Polyester fabric PU belt

Material advantages of special extrusion processes



Does not absorb water



Does not absorb oil



Does not absorb odors



Does not harbor bacteria



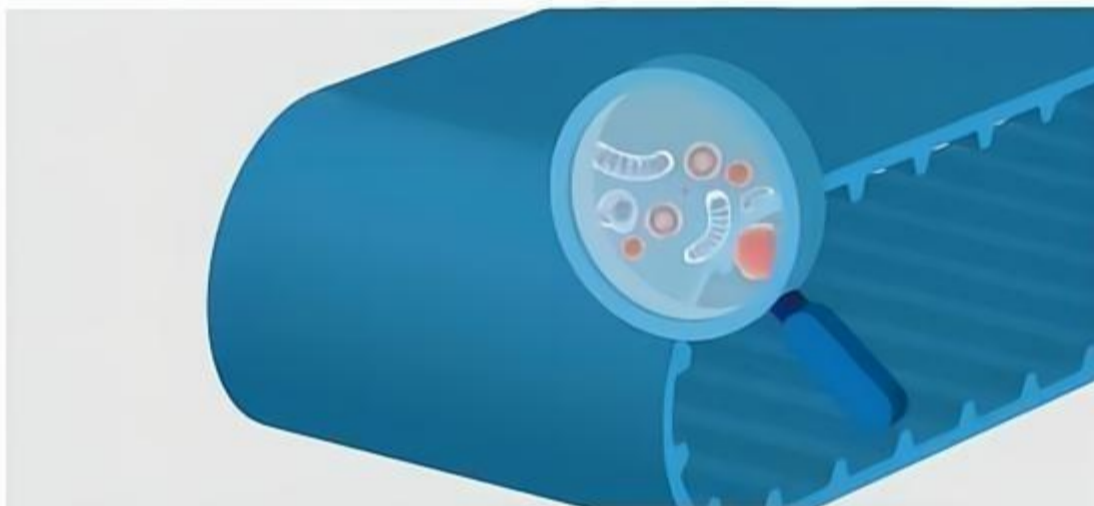
Does not produce delamination



Easy to clean and save water

Use high-grade antibacterial materials to ensure that the conveyor belt is mold-free

All products of the belt series meet the following test report standards:



● General conveyor belt

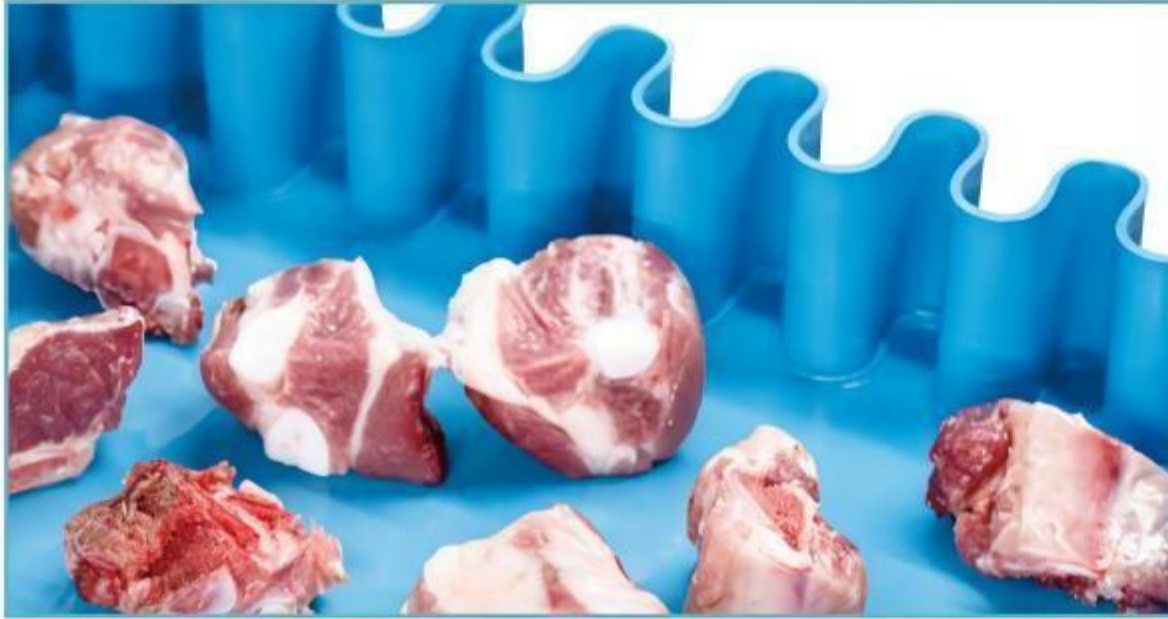


● HealthPro series

The belt can effectively inhibit the growth of bacteria, avoid infection of transported products, and provide customers with a safe and healthy use environment.

	Zero Risk fabric contamination	Low Cost cleaning & maintenance	Good Sealing waterproof performance	No aging delamination	Stable low temperature operation
HealthPro series	Excellent material selection and one-time extrusion molding process completely avoid the risk of fiber drop, remove hidden dangers of food hygiene, and effectively solve the risk of fabric contamination.	The surface has high flatness, smooth corners, no dead corners, which solves the problem of debris, dirt and organic matter accumulation. The consumption of water and cleaning agents has been significantly reduced, which has been proven in numerous trials, minimizing maintenance costs.	The superior compactness of the easy-to-clean belt can completely prevent water and oil from penetrating into the conveyor belt body, effectively increasing the life of the conveyor belt.	The excellent anti-hydrolysis performance of CLEANGEN series allows the conveyor belt to maintain good performance even if it is exposed to a humid and hot environment for a long time.	Good low temperature resistance enables the easy-clean belt series to maintain toughness and run stably in low temperature environments.
General conveyor belt	Polyester fabric and equipment friction broken fibers fall into the food, with health risks; on the other hand, broken fibers involved in the equipment, easy to occur in the downtime phenomenon, the risk is higher.	The traditional conveyor belt has many dead ends and cannot be fully cleaned, and a large amount of water and chemicals are required for cleaning, which increases manpower and time costs.	Humid or heavy oil environment will lead to faster surface cracking of traditional conveyor belts, increasing the risk of food hygiene. In addition, the fabric layer of the traditional fabric conveyor belt has a stronger water absorption capacity, and it is easy to breed bacteria after long-term use.	Frequent cleaning with warm water and disinfectants will accelerate the aging of the conveyor belt, and the adhesion of each layer will deteriorate, resulting in delamination of the conveyor belt, which cannot meet the daily use.	When exposed to low temperatures, its performance rapidly degrades and belt splices begin to embrittle and fail.

FIELD OF APPLICATION



Raw meat processing

- Blood will not mildew
- Animal grease is easy to clean



Fresh fruits & vegetables

- High density hydrolysis resistance



Frozen food (dumplings, meatballs, etc.)

- Low temperature delivery
does not crack



Fried food

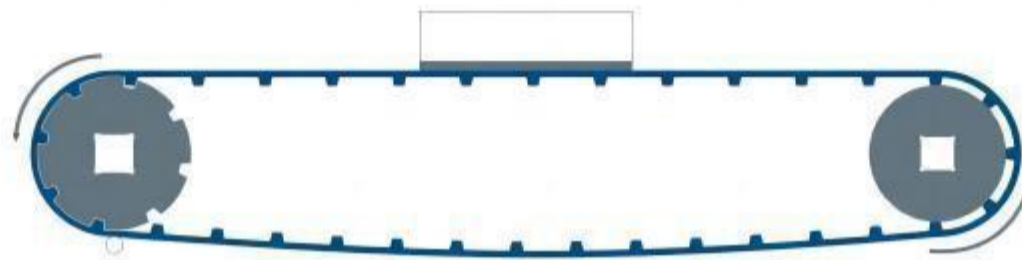
- Oil resistance
corrosion resistance
no odor residue

TYPE OF DRIVE

The HealthPro belt series adopts two different driving modes to meet the conveying needs of different sections.

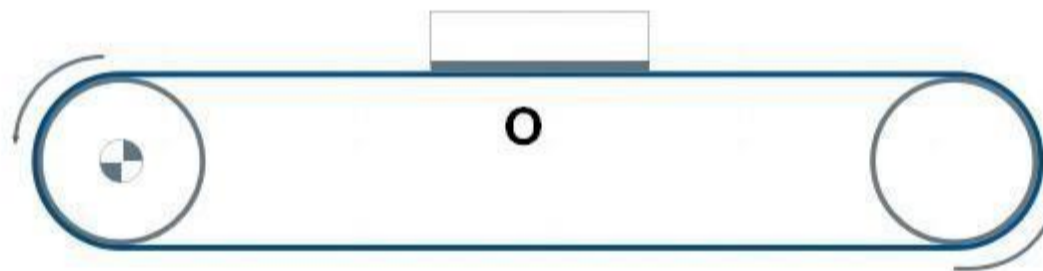
■ Gear Drive

The meshing transmission design of the belt series is unique. It mainly uses the parallel extrusion teeth on the surface of the conveyor belt and the pulley groove to transmit power. The design further enhances the reliability and stability of the transmission; The operation of the unique guide mechanism reduces the tension and deviation of the conveyor belt, facilitates maintenance, greatly saves the customer's operating space, and prolongs the service life of the conveyor belt.



■ Friction drive

Friction drive is a common drive mode, which relies on the friction force generated when the belt and pulleys are tensioned to drive the movement of objects on the surface of the belt. HealthPro net plane homogeneous belt can be used without changing the original mechanical structure of friction drive, which meets the conveying requirements of some special sections and achieves a long-term hygienic use environment.



TYPE SPECIFICATION

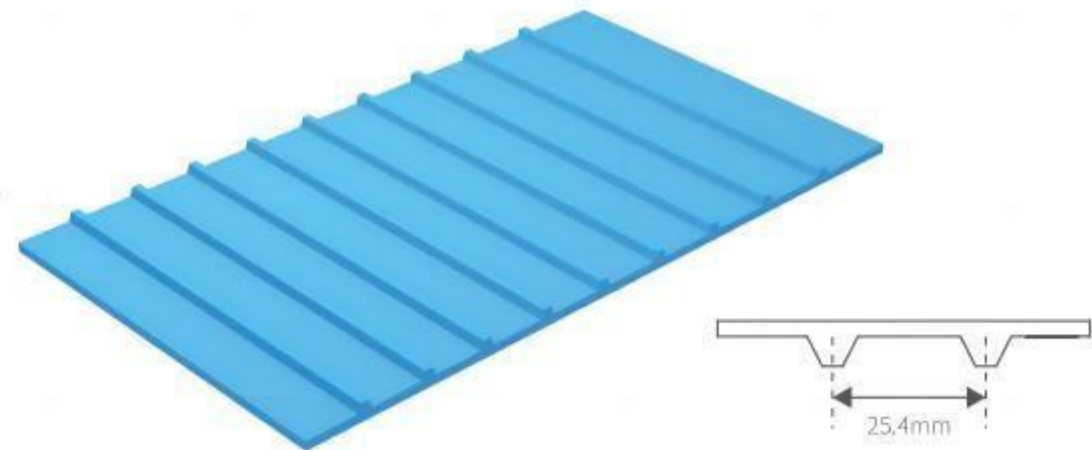
ES 25 - B 30 Y / O

ES -Material	25 - Series	B - Color	30 - Floor thickness	Y - Wired	O - pattern
ES-Ester	00-H00 plane belt	B-blue	20-2.0mm	Y-Contains aramid wire	M-matte
EH-Ether	25-H25 toothed belt	DB-dark blue	23-2.3mm	No letter indicates pure material	G-golf
	40-H40 toothed belt	W-white	28-2.8mm		S-small triangle
	50-H50 toothed belt	MW-milk white	30-3.0mm		H-horizontal bar
			46-4.6mm		O-glossy

H25 Series

Selection reference:

The connection of the conveying equipment requires small wheel strength and the load is not heavy.



Technical Parameters

Product code	Colour	Material	Hardness	Antibacterial class	Thickness (MM)	Depth of tooth (MM)	Maximum load (kg/m)	Working temperature (°C)	Surface Design	Pitch (MM)	Minimum roll diameter (MM)
ES25-B28Y	blue	TPU	90A	Grade one	2.8	3	210	-5 / +80	glossy	25.4	80.25
ES25-B23	blue	TPU	50D	Grade one	2.3	3	80	-5 / +80	glossy	25.4	64.2
ES25-W28Y	white	TPU	90A	Grade one	2.8	3	210	-5 / +80	glossy	25.4	80.25
ES25-W23	white	TPU	50D	Grade one	2.3	3	80	-5 / +80	glossy	25.4	64.2
EH25-DB28Y	dark blue	TPU	90A	Grade zero	2.8	3	210	-20 / +60	glossy	25.4	80.25
EH25-DB23	dark blue	TPU	50D	Grade zero	2.3	3	80	-20 / +60	glossy	25.4	64.2
EH25-MW28Y	milk white	TPU	90A	Grade zero	2.8	3	210	-20 / +60	glossy	25.4	80.25
EH25-MW23	milk white	TPU	50D	Grade zero	2.3	3	80	-20 / +60	glossy	25.4	64.2

Wheels And Parameters

Category	Model	Number	Outside diameter (mm)	Thickness (mm)	Materials	Bore shape	Bore specification (mm)	Schematic
Action wheel	C25-8E	8	64.2	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C25-10E	10	80.25	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C25-12E	12	96.3	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C25-14E	14	112.35	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	

H50 Series

Selection reference:

The H50 series is an upgrade of the H25 series, which has a stronger load capacity and is suitable for heavy wheel load.



Technical Parameters

Product code	Colour	Material	Hardness	Antibacterial class	Thickness (MM)	Depth of tooth (MM)	Maximum load (kg/m ²)	Working temperature (°C)	Surface Design	Pitch (MM)	Minimum roll diameter (MM)
ES50-B30	blue	TPU	50D	Grade one	3.0	4	110	-5 / +80	glossy	50.4	128.4
ES50-W30	white	TPU	50D	Grade one	3.0	4	110	-5 / +80	glossy	50.4	128.4
ES50-B30Y	blue	TPU	90A	Grade one	3.0	4	220	-5 / +80	glossy	50.4	128.4
ES50-W30Y	white	TPU	90A	Grade one	3.0	4	220	-5 / +80	glossy	50.4	128.4
ES50-B46Y	blue	TPU	90A	Grade one	4.6	4	240	-5 / +80	glossy	50.4	128.4
ES50-B30Y/G	blue	TPU	90A	Grade one	3.0	4	220	-5 / +80	golf	50.4	128.4
EH50-DB30	dark blue	TPU	50D	Grade zero	3.0	4	110	-20 / +60	glossy	50.4	128.4
EH50-MW30	milk white	TPU	50D	Grade zero	3.0	4	110	-20 / +60	glossy	50.4	128.4
EH50-DB30Y	dark blue	TPU	90A	Grade zero	3.0	4	220	-20 / +60	glossy	50.4	128.4
EH50-MW30Y	milk white	TPU	90A	Grade zero	3.0	4	220	-20 / +60	glossy	50.4	128.4

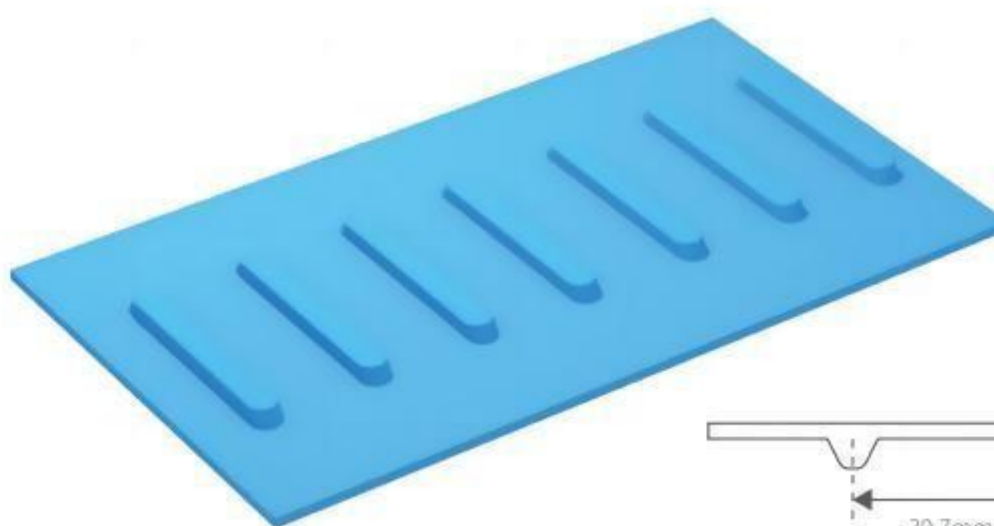
Wheels And Parameters

Category	Model	Number	Outside diameter (mm)	Thickness (mm)	Materials	Bore shape	Bore specification (mm)	Schematic
Action wheel	C50-8E	8	128.4	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C50-10E	10	160.5	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C50-12E	12	192.61	30	POM / PA / PE	Square hole	40	
						Circular hole	25-35	

H40 Series

Selection reference:

The center drive design makes the conveying surface more flat and the bottom cleaning more convenient.



Technical Parameters

Product code	Colour	Material	Hardness	Antibacterial class	Thickness (mm)	Depth of tooth (mm)	Maximum load (kg/m ²)	Working temperature (°C)	Surface Design	Pitch (mm)	Minimum roll diameter (mm)
ES40-B30	blue	TPU	50D	Grade one	3.0	8	120	-5 / +80	glossy	39.7	101.15
ES40-W30	white	TPU	50D	Grade one	3.0	8	120	-5 / +80	glossy	39.7	101.15
ES40-B30Y	blue	TPU	90A	Grade one	3.0	8	220	-5 / +80	glossy	39.7	101.15
ES40-W30Y	white	TPU	90A	Grade one	3.0	8	220	-5 / +80	glossy	39.7	101.15
EH40-DB30	dark blue	TPU	50D	Grade one	3.0	8	120	-20 / +60	glossy	39.7	101.15
EH40-MW30	milk white	TPU	50D	Grade one	3.0	8	120	-20 / +60	glossy	39.7	101.15
EH40-DB30Y	dark blue	TPU	90A	Grade one	3.0	8	220	-20 / +60	glossy	39.7	101.15
EH40-MW30Y	milk white	TPU	90A	Grade one	3.0	8	220	-20 / +60	glossy	39.7	101.15

Wheels And Parameters

Category	Model	Number	Outside diameter (mm)	Thickness (mm)	Materials	Bore shape	Bore specification (mm)	Schematic
Action wheel	C40-8E	8	101.15	90	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C40-10E	10	126.43	90	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Action wheel	C40-12E	12	151.72	90	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Driven wheel	D50-8E	8	101.15	150	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Driven wheel	D50-10E	10	126.43	150	POM / PA / PE	Square hole	40	
						Circular hole	25-35	
Driven wheel	D50-12E	12	151.72	150	POM / PA / PE	Square hole	40	
						Circular hole	25-35	

H00 Series


Selection reference:

Do not need to change the original mechanical structure, can be installed directly.




Technical Parameters


Product code	Colour	Material	Hardness	Antibacterial class	Thickness (mm)	Maximum load (kg/m ²)	Working temperature (°C)	Surface Design	Minimum roll diameter (mm)
ES00-B20Y/OM	blue	TPU	85A	Grade one	2.0	160	-5 / +80	glossy / matte	40
ES00-W20Y/OM	white	TPU	85A	Grade one	2.0	160	-5 / +80	glossy / matte	40
ES00-B30Y/OM	blue	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / matte	50
ES00-W30Y/OM	white	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / matte	50
ES00-B30Y/OG	blue	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / golf	50
ES00-B30Y/OS	blue	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / small triangle	50
EH00-DB30Y/OM	dark blue	TPU	50D	Grade zero	3.0	180	-20 / +60	glossy / matte	60
EH00-DB30Y/OG	dark blue	TPU	50D	Grade zero	3.0	180	-20 / +60	glossy / golf	60




Golf



Small triangle



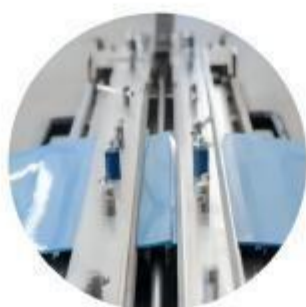
Horizontal bar



Plane (Glassy / Matte)

Connection equipment

In order to repair and restore production in a timely manner when the conveyor belt breaks due to mechanical failure in the production process, HealthPro introduces a quick splicing machine, which is simple and convenient to operate, enabling on-site installation and repair of the conveyor belt. The specific operation and equipment specifications are available on line by contacting the corresponding sales person.



HealthPro

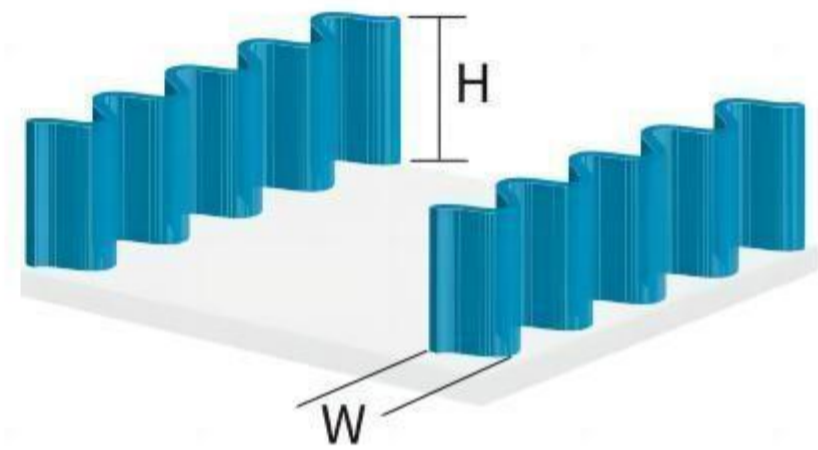
Easy Clean Homogeneous Belt Attachment

Skirt

Product number	Colour	Skirt height range H (mm)	Thickness (mm)	Skirt width W (mm)	Hardness
UKS+height	Blue	10mm-120mm	2	30 / 35 / 40 / 50	85A
WKS+height	White	10mm-120mm	2	30 / 35 / 40 / 50	85A

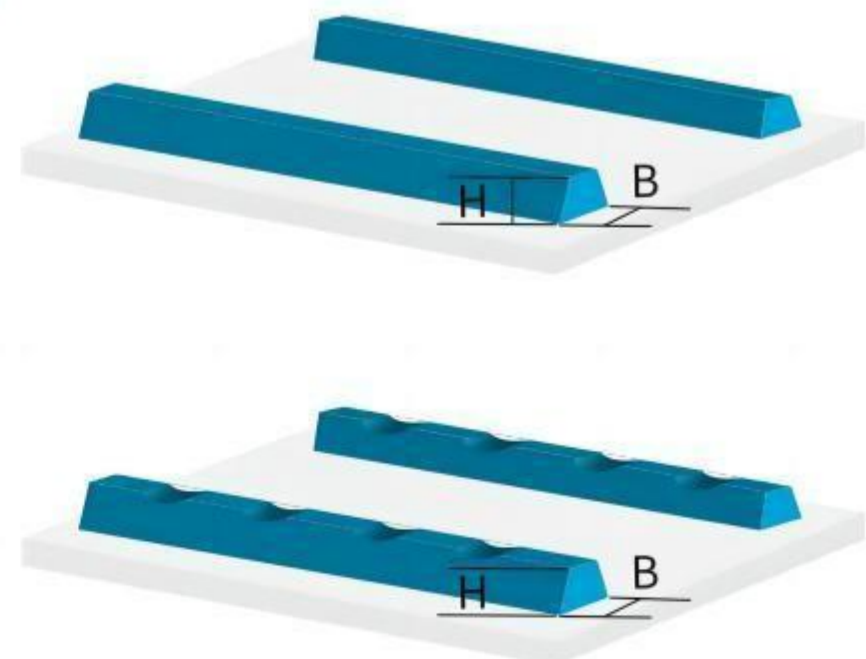
(Note: Skirt can be customized according to customer requirements)

- Prevent material from falling and improve operation stability
- Improve delivery efficiency



C-guide

Product number	Colour	specification		Minimum roll diameter with teeth	Minimum roll diameter without teeth	Hardness	With teeth
		B	H				
D5	Blue White	5	3	25	30	70A	●
D6	Blue White	6	4	30	35	70A	●
D8	Blue White	8	5	35	45	70A	●
D10	Blue White	10	6	45	50	70A	●
D13	Blue White	13	8	60	70	70A	●
D17	Blue White	17	11	90	100	70A	●
TD10	Blue White	10	10		80	70A	

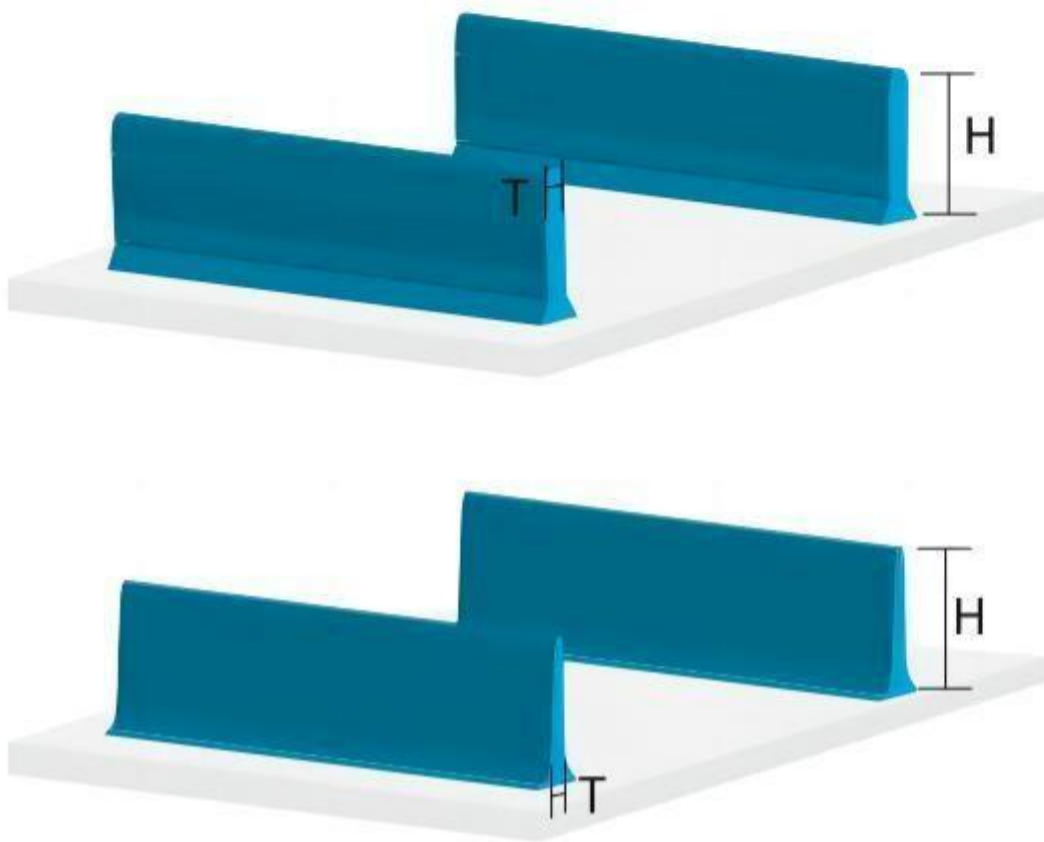


(Note: The minimum roll diameter is the front parameter of the belt, and C-guide can be customized according to customer requirements)

- Prevent the belt from running off

Cleats

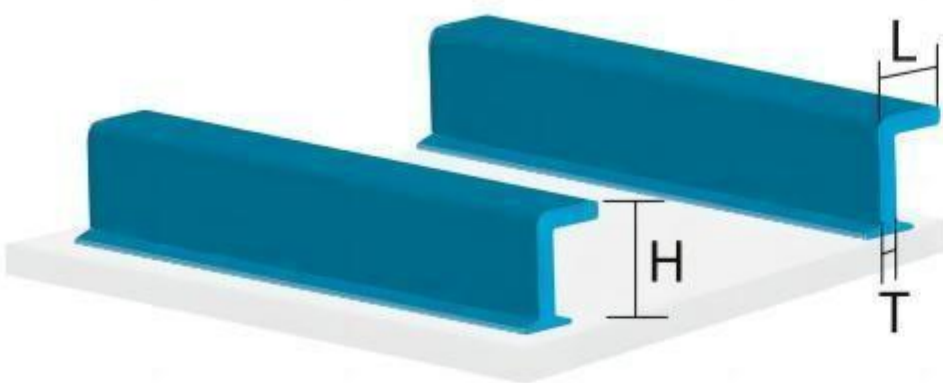
Straight cleats & Strengthen cleats



Product number	Colour	Baffle height range H (mm)	Thickness T (mm)	Hardness
UKTX-height	Blue	10mm-120mm	6	85A
WKTX-height	White	10mm-120mm	6	85A
UKT-height	Blue	10mm-120mm	4	85A
WKT-height	White	10mm-120mm	4	85A

(Note:can be customized according to customer requirements)

Scooped cleats



Product number	Colour	Baffle height range H (mm)	Thickness T (mm)	length L(mm)	Hardness
UKTL-50	Blue	50	5.5	30	85A
UKTL-50	Blue	70	5.5	30	85A
UKTL-50	Blue	90	5.5	30	85A
UKTL-50	Blue	110	5.5	40	85A
WKTL-50	White	50	5.5	30	85A
WKTL-50	White	70	5.5	30	85A
WKTL-50	White	90	5.5	30	85A
WKTL-50	White	110	5.5	40	85A

(Note:can be customized according to customer requirements)

- The problem of material scattering and loss in the process of climbing and horizontal transportation is solved

Conveyor structure

H40 SERIES CONVEYOR STRUCTURE

Traditional conveyors consist of the following components:

- Drive Wheel
- A sliding bed composed of multiple UHMW ultra-high polymer engineering plastic support bars
- Driven pulley with tensioner (tensioner)
- Additional pallets according to the width of the belt and the weight of the conveyance
- Rotary wheel
- Anti-tooth idler



- For long belts carrying heavy material, we recommend roller slide beds.
- It is recommended to use UHMW ultra-high polymer engineering material support strips as conveyor slide beds.

Recommended size specifications:

A. Distance between guide support on both sides of conveyor belt teeth :85 mm

B. Spacing of other support :100-150 mm

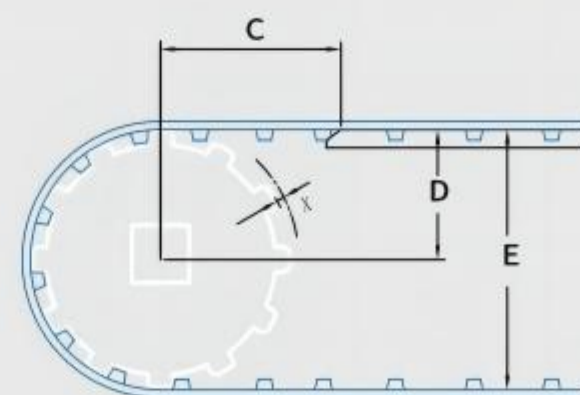
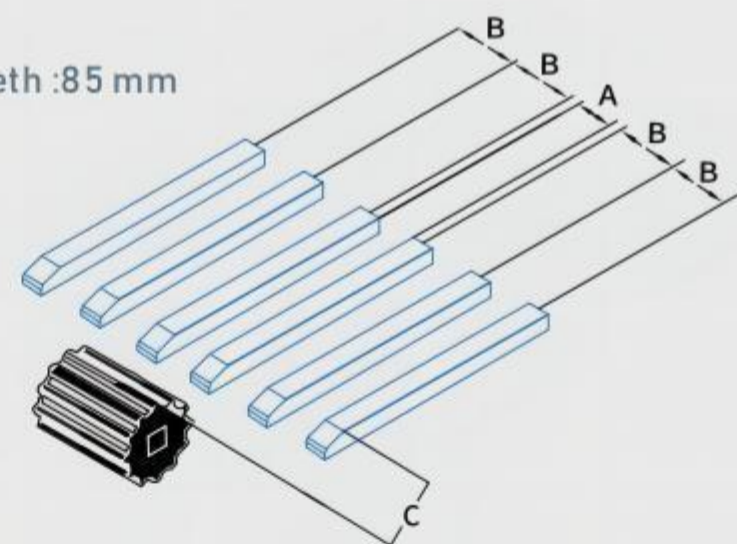
C. The distance between the drive wheel and the front end of the support strip depends on the support strip and the cross section of the strut. The C should be as small as possible, but retain a gap X of not less than 20 mm.

D. Distance between the center of the driving roll and the surface of the support strip: half of the outer diameter of the driving roll

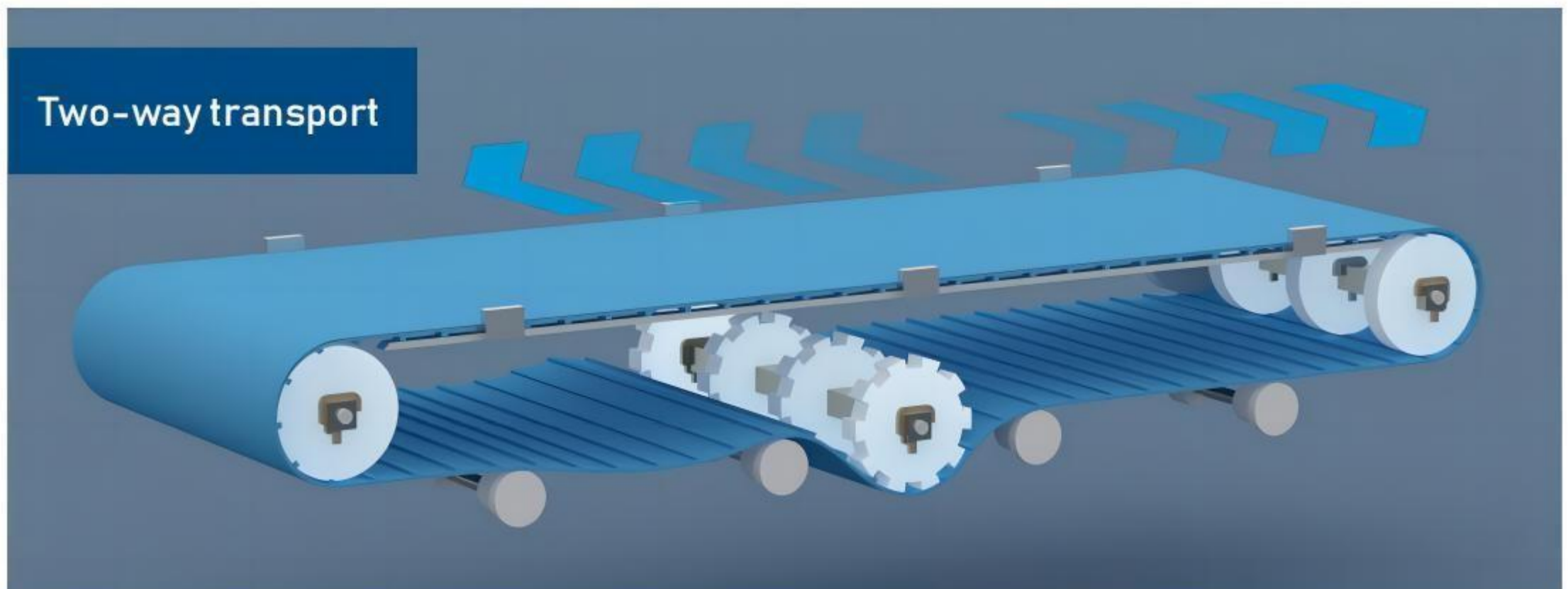
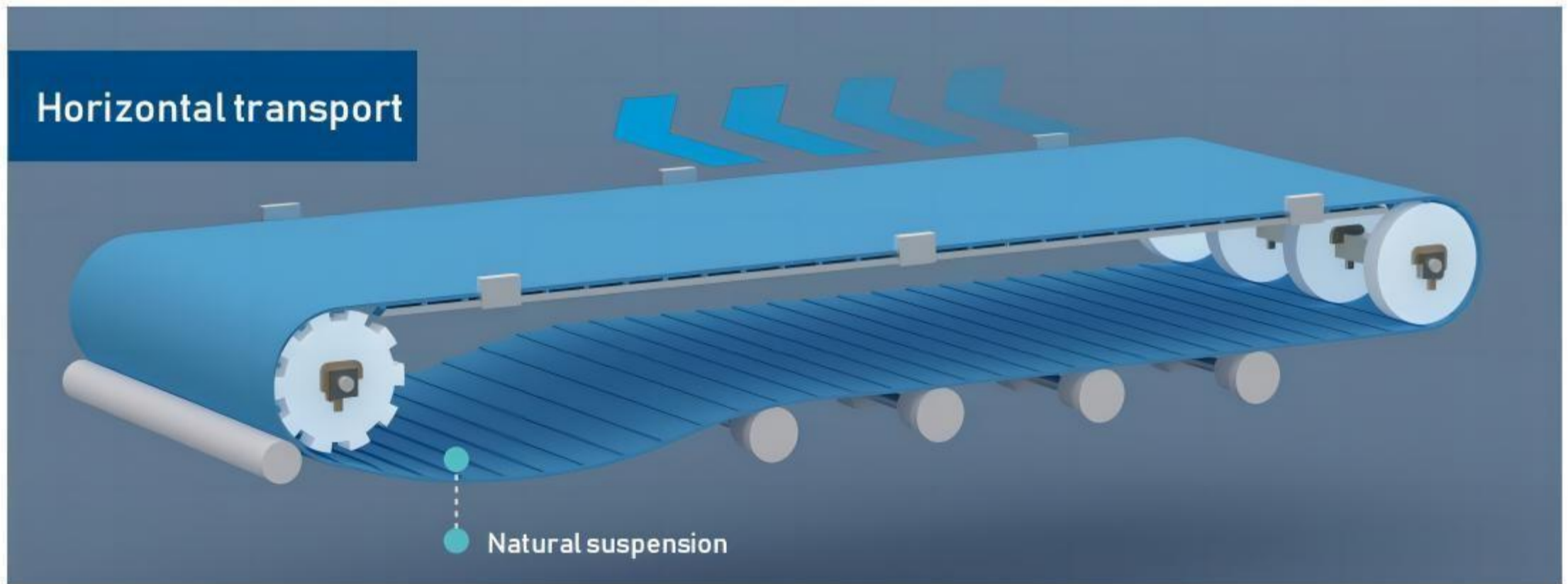
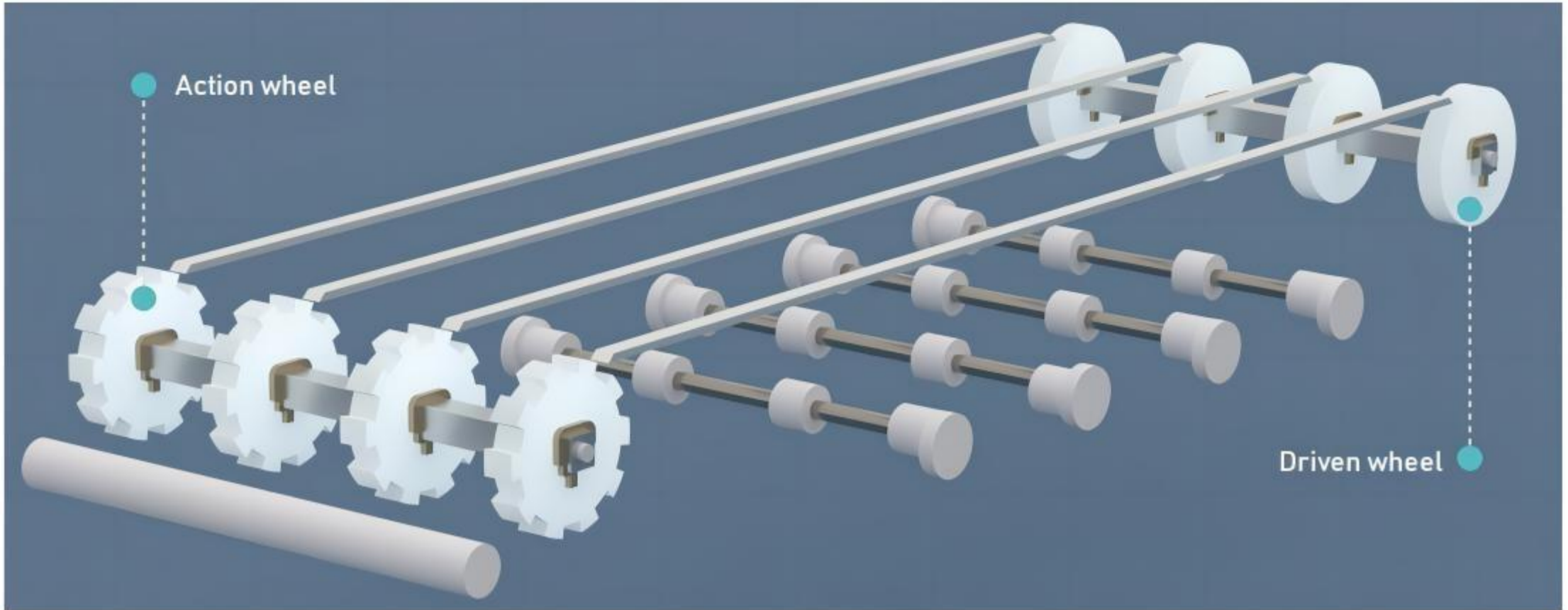
E. Surface of the sliding bed to the bottom of the conveyor belt at 180° engagement Angle Distance:
mesh diameter of conveyor belt =
outer diameter of driving roll + thickness of conveyor belt

F. Support strip width :25-50 mm

G. Maximum distance between conveyor belt edge and support strip :50 mm



H25 / H50 SERIES CONVEYOR STRUCTURE

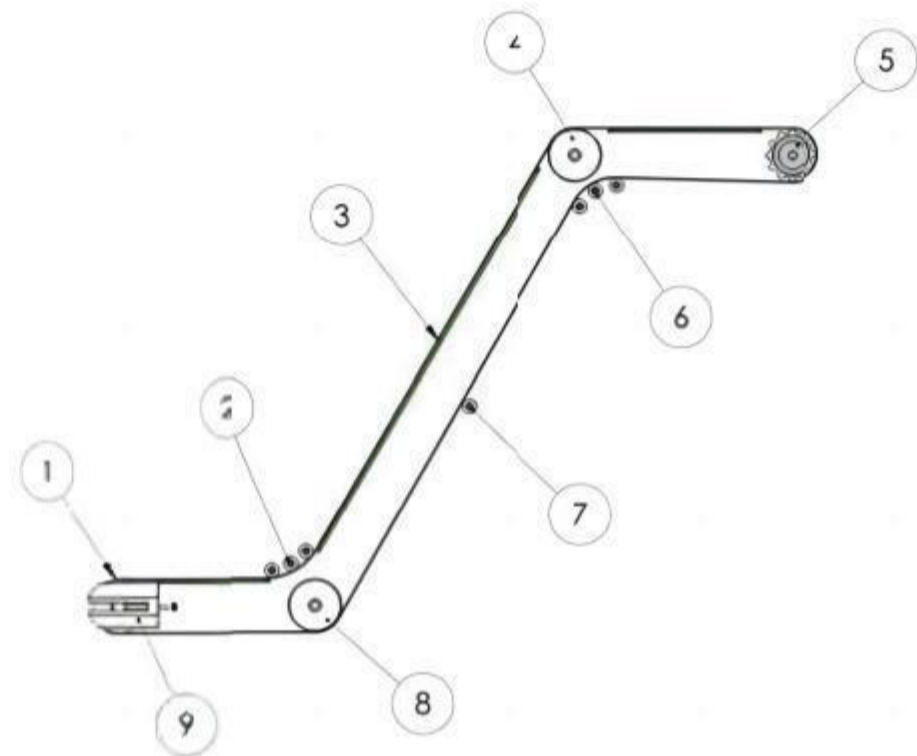


Z-SHAPE CONVEYOR STRUCTURE

Z-type conveyors are usually used to lift materials. HealthPro homogeneous easy-cleaning belts are absolutely ideal for such applications:

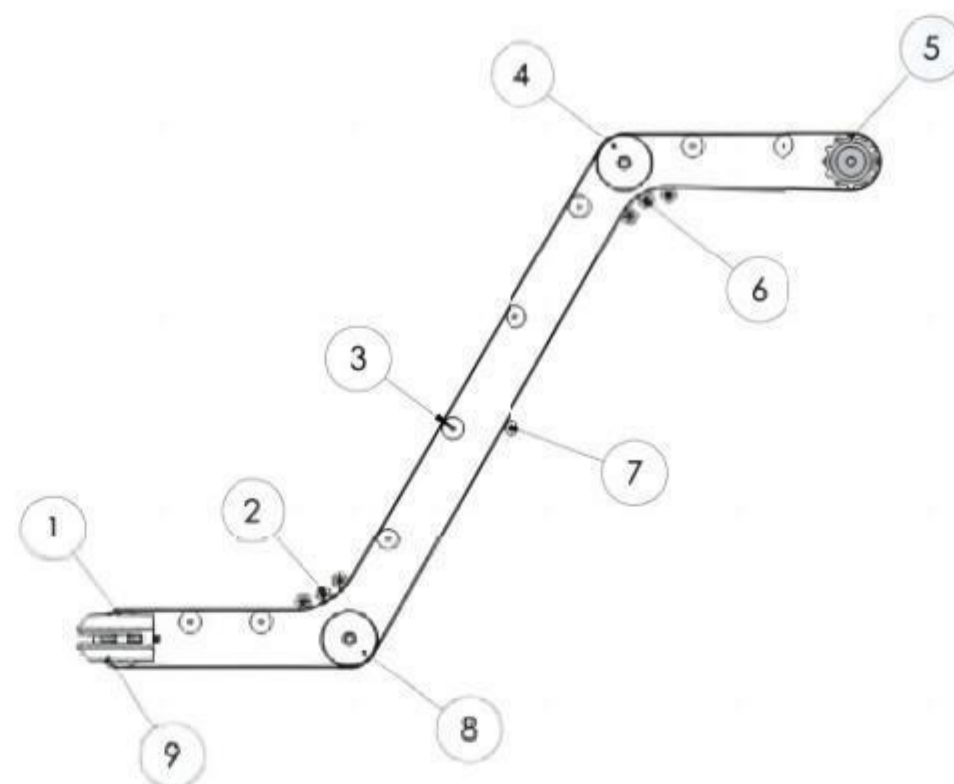
■ UHMW ultra-high polymer engineering plastic support bar slide bed structure

1. Driven wheel
2. Roller set: Transition from horizontal to inclined conveying
3. UHMW ultra-high molecular engineering plastic support strip sliding bed
4. Top Roller: Tilt to Horizontal Transition
5. Drive wheel
6. Roller set: Transition from horizontal to descending return
7. Return roller
8. Bottom roller: Transition from descent to horizontal return
9. Driven wheel tension device (tensioner)



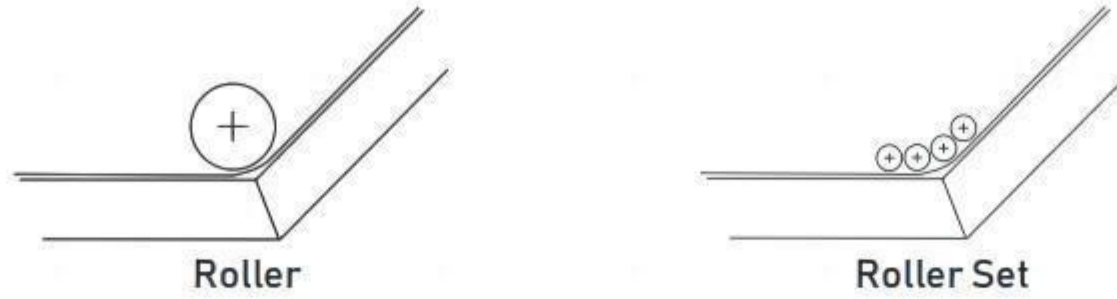
■ Roller slide bed structure

1. Driven wheel
2. Roller set: Transition from horizontal to inclined conveying
3. Idler sliding machine
4. Top Roller: Tilt to Horizontal Transition
5. Drive wheel
6. Roller set: Transition from horizontal to descending return
7. Return roller
8. Bottom roller: Transition from descent to horizontal return
9. Driven wheel tension device (tensioner)



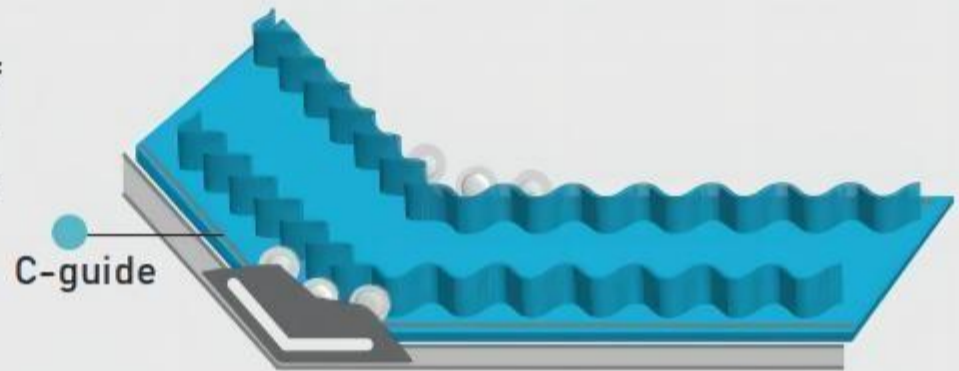
Note: In the transition zone (2 and 4), the conveyor belt will be offset towards the center of the fitting circle of the curved structure of the conveyor, resulting in high tension and friction on the components in this zone. Therefore, it is very important to use roller sets at these two transitions to minimize tension and friction.

2 configuration options for the transition area



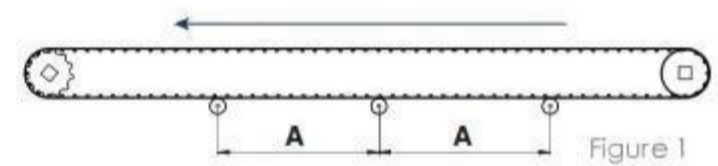
The bending angle of the conveyor belt should be as large as possible, and it should not be smaller than the minimum driving wheel diameter of the conveyor belt and its components used. The larger the bending angle, the smaller the wear. In large-angle bending parts, it is most convenient to use a roller set composed of small rollers.

For belt widths of 600 mm or more, we recommend the use of guide bars on both sides of the front of the belt. The guide bar keeps the conveyor belt running stably through the V-groove pulley in the transition area (see picture). This method is recommended.

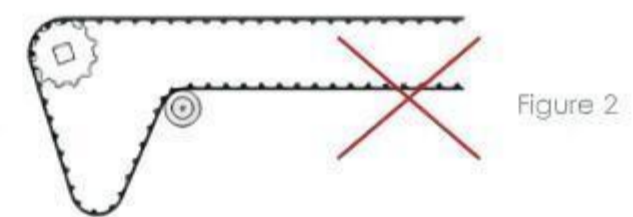


Rotary wheel

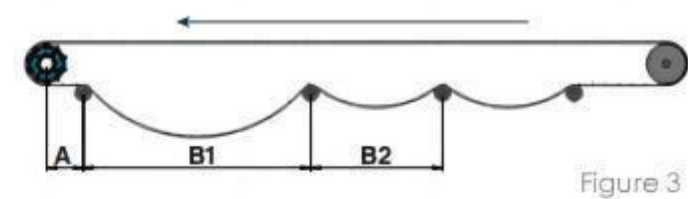
If the conveyor has a tensioning device (tensioner) and the conveyor belt has been tensioned by 0.3-0.5%, the conveyor can run regardless of the placement of the return wheels, usually the distance A between the return wheels is a maximum of 1.5 meters (Figure 1).



The conveyor belt is allowed to sag between the rotary wheels. But in any case, the key point is to avoid the slack of the conveyor belt close to the driving wheel, so as to prevent the phenomenon of tooth detachment between the belt teeth and the gear teeth during the operation of the conveyor (Figure 2).

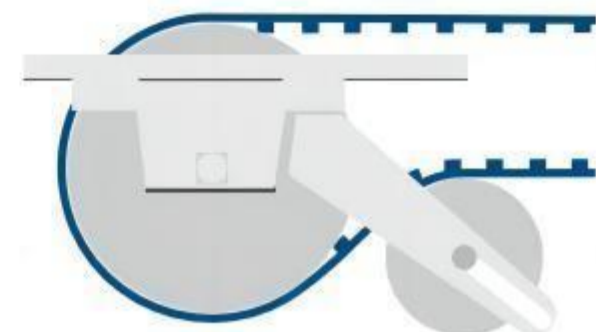


The distance between the return wheels should take advantage of the weight of the belt to prevent the belt from slack near the drive wheels. When positioning one rotary pulley, it is permissible to place the other rotary pulley a long distance away so that the weight of the belt will cause it to sag at that distance, rather than near the drive pulley (Figure 3).



Anti-tooth idler

The anti-tooth idler increases the meshing angle between the driving wheel and the conveyor belt, so the occurrence of tooth removal is eliminated. The anti-tooth idler is also widely used to transport heavy materials or to prevent tooth skipping caused by other reasons. It is installed very close to the drive wheel to avoid relaxation of the conveyor belt between the two.





Manufacturer of Conveyor Components

[Behind Chaudhary Dhaba,](#)
[Near New CNG Pump, Patil](#)
[Nagar Chikhali, Pune,](#)
[Maharashtra - 412109](#)
[Mobile: + 91 9158286898](#)
[Email:plastlinkbelt@gmail.com](mailto:plastlinkbelt@gmail.com)
[Web : www.plastlinkbelt.in](http://www.plastlinkbelt.in)
[GSTIN 27ALZPH6911R1Z1](#)

HEART FOR

EACH DELIVERY