

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

RIGALLI®
best way in belting

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

As one of the auxiliary materials in direct contact with products, the domestic 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, RIGALLI VEGABLU and OMEGABLU antibacterial easy to clean homogeneous belt was born.

VEGABLU 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, and set up service outlets in the country, can provide timely localized services.

VEGABLU & OMEGABLU

Easy Clean Homogeneous Belt

RIGALLI 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



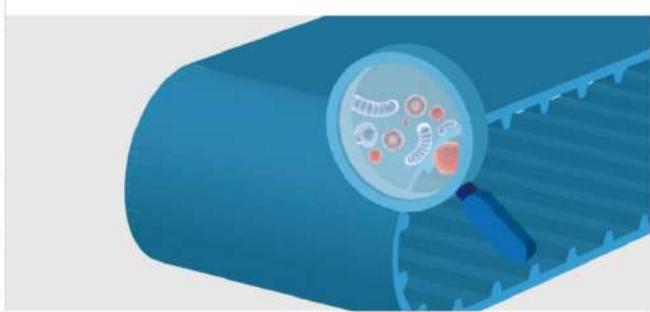
●
Does not produce delamination



●
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:



NORMAL PU BELT



VEGABLUE & OMEGABLUE BY RIGALLI PU BELT

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

VEGABLUE AND OMEGABLUE SERIES

avoid the risk of fiber drop, remove hidden dangers of food hygiene, and effectively solve the risk of fabric contamination.

Excellent material selection and one-time extrusion molding process completely

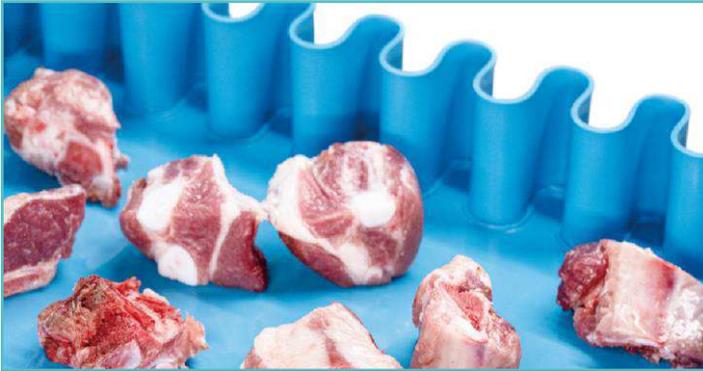
The surface has high flatness, smooth corners, no dead corners, which solves the problem of debris, dirt and organic matter

The consumption of water and cleaning agents has been significantly reduced, which has been proven in numerous trials, minimizing maintenance costs.

The excellent anti-hydrolysis performance of VEGABLUE & OMEGABLUE 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.

FIELD OF APPLICATION



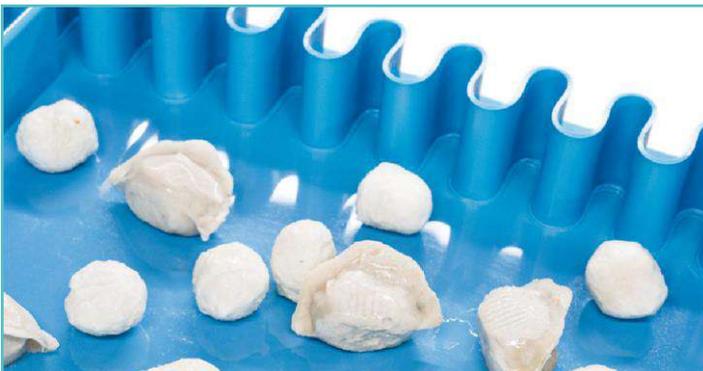
Raw meat processing

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



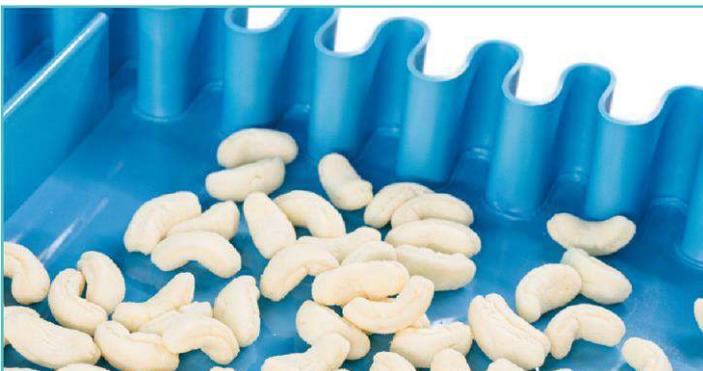
Fresh fruits & vegetables

- High density hydrolysis resistance



Frozen food (dumplings, meatballs, etc.)

- Low temperature delivery does not crack



Fried food

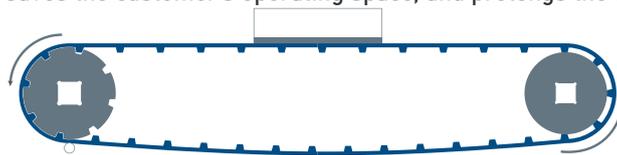
- Oil resistance
corrosion resistance
no odor residue

TYPE OF DRIVE

The VEGABLUE & OMEGABLUE 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.

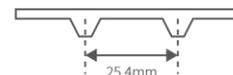


■ Friction drive

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. VEGABLUE & OMEGABLUE 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.



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 ²)	Working temperature (°C)	Surface Design	Pitch (mm)	Minimum roll diameter (mm)
H25-MW23	blue	TPU	90A	Grade one	2.8	3	210	-5 / +80	glossy	25.4	80.25
	blue	TPU	50D	Grade one	2.3	3	80	-5 / +80	glossy	25.4	64.2
	white	TPU	90A	Grade one	2.8	3	210	-5 / +80	glossy	25.4	80.25
	white	TPU	50D	Grade one	2.3	3	80	-5 / +80	glossy	25.4	64.2
	dark blue	TPU	90A	Grade zero	2.8	3	210	-20 / +60	glossy	25.4	80.25
	dark blue	TPU	50D	Grade zero	2.3	3	80	-20 / +60	glossy	25.4	64.2
	milk white	TPU	90A	Grade zero	2.8	3	210	-20 / +60	glossy	25.4	80.25
	milk white	TPU	50D	Grade zero	2.3	3	80	-20 / +60	glossy	25.4	64.2

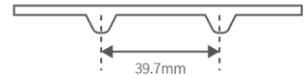
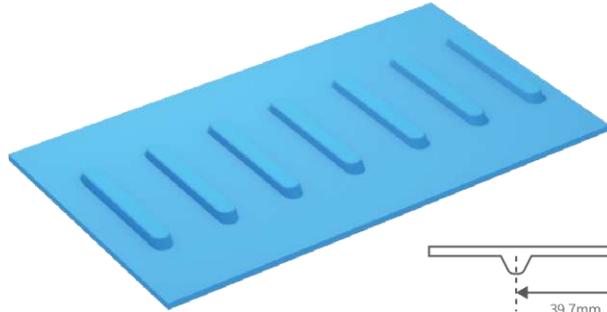
The k50 series is an upgrade of the k25 series, which has a stronger load capacity and is suitable for heavy wheel load.



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)
H50-MW30Y	blue	TPU	50D	Grade one	3.0	4	110	-5 / +80	glossy	50.4	128.4
	white	TPU	50D	Grade one	3.0	4	110	-5 / +80	glossy	50.4	128.4
	blue	TPU	90A	Grade one	3.0	4	220	-5 / +80	glossy	50.4	128.4
	white	TPU	90A	Grade one	3.0	4	220	-5 / +80	glossy	50.4	128.4
	blue	TPU	90A	Grade one	4.6	4	240	-5 / +80	glossy	50.4	128.4
	blue	TPU	90A	Grade one	3.0	4	220	-5 / +80	golf	50.4	128.4
	dark blue	TPU	50D	Grade zero	3.0	4	110	-20 / +60	glossy	50.4	128.4
	milk white	TPU	50D	Grade zero	3.0	4	110	-20 / +60	glossy	50.4	128.4
	dark blue	TPU	90A	Grade zero	3.0	4	220	-20 / +60	glossy	50.4	128.4
	milk white	TPU	90A	Grade zero	3.0	4	220	-20 / +60	glossy	50.4	128.4

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)
H40-MW30Y	blue	TPU	50D	Grade one	3.0	8	120	-5 / +80	glossy	39.7	101.15
	white	TPU	50D	Grade one	3.0	8	120	-5 / +80	glossy	39.7	101.15
	blue	TPU	90A	Grade one	3.0	8	220	-5 / +80	glossy	39.7	101.15
	white	TPU	90A	Grade one	3.0	8	220	-5 / +80	glossy	39.7	101.15
	dark blue	TPU	50D	Grade one	3.0	8	120	-20 / +60	glossy	39.7	101.15
	milk white	TPU	50D	Grade one	3.0	8	120	-20 / +60	glossy	39.7	101.15
	dark blue	TPU	90A	Grade one	3.0	8	220	-20 / +60	glossy	39.7	101.15
	milk white	TPU	90A	Grade one	3.0	8	220	-20 / +60	glossy	39.7	101.15

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)	
S00-U20Y/AM	blue	TPU	85A	Grade one	2.0	160	-5 / +80	glossy / matte	40	 Golf
S00-W20Y/AM	white	TPU	85A	Grade one	2.0	160	-5 / +80	glossy / matte	40	 Small triangle
S00-U30Y/AM	blue	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / matte	50	
S00-W30Y/AM	white	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / matte	50	
S00-U30Y/AG	blue	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / golf	50	 Horizontal bar
S00-U30Y/AS	blue	TPU	85A	Grade one	3.0	180	-5 / +80	glossy / small triangle	50	
H00-DU30Y/AM	dark blue	TPU	50D	Grade zero	3.0	180	-20 / +60	glossy / matte	60	
H00-DU30Y/AG	dark blue	TPU	50D	Grade zero	3.0	180	-20 / +60	glossy / golf	60	 Plane (Glossy / Matte)

VEGABLUEOMEGABLUE

Easy Clean Homogeneous Belt Attachment

Skirt

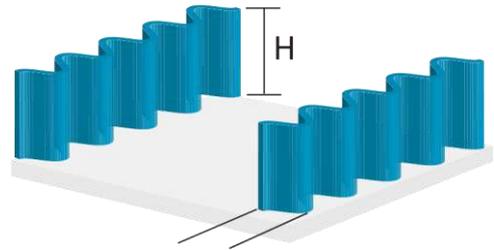
	Blue	10mm-120mm	2	35 / 40 / 50	85
Product number	Colour	Skirt height range H (mm)	Thickness (mm)	Skirt width W (mm)	Hardness A

UKS+height

	White	10mm-120mm	2	35 / 40 / 50	85
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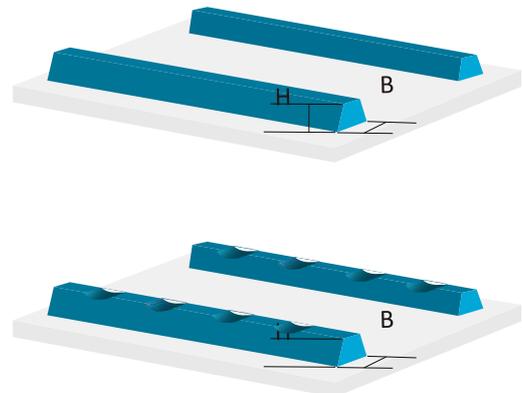
(Note: Skirt can be customized according to customer requirements)

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



C-guide

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



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

Cleats

Straight cleats & Strengthen cleats

Product number	Colour	Baffle height range H (mm)	Thickness T (mm)	Hardness A
UKTX-height	Blue	10(mm)Multiples of - 120.0(mm)	6	90
UKTX-height	White	10(mm)Multiples of - 120.0(mm)	6	90
UKTX-height	Blue	10(mm)Multiples of - 120.0(mm)	4	90
UKTX-height	White	10(mm)Multiples of - 120.0(mm)	4	90

(Note:can be customized according to customer requirements)

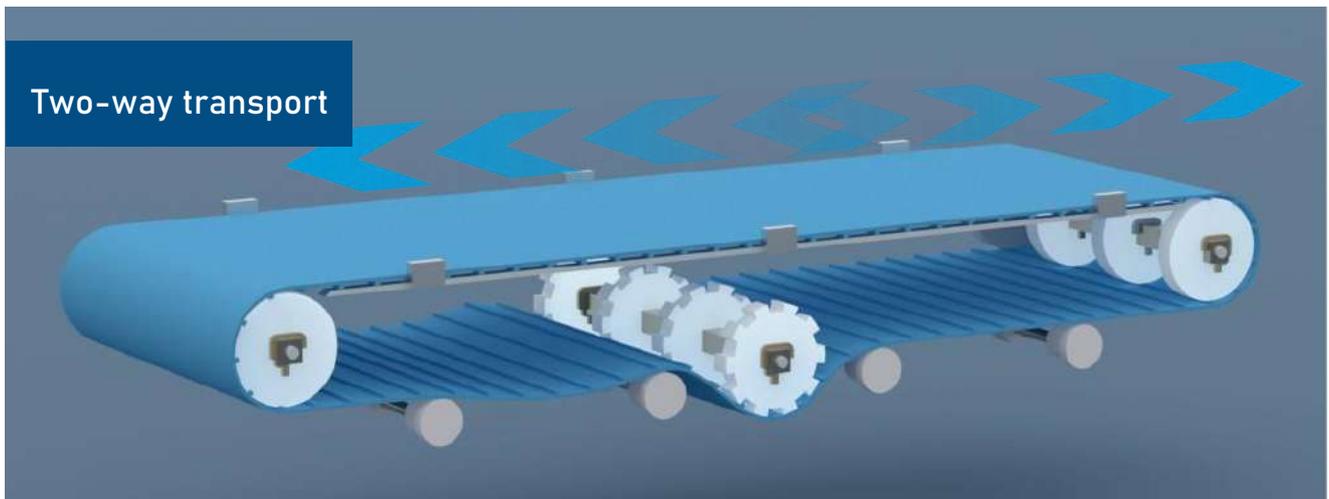
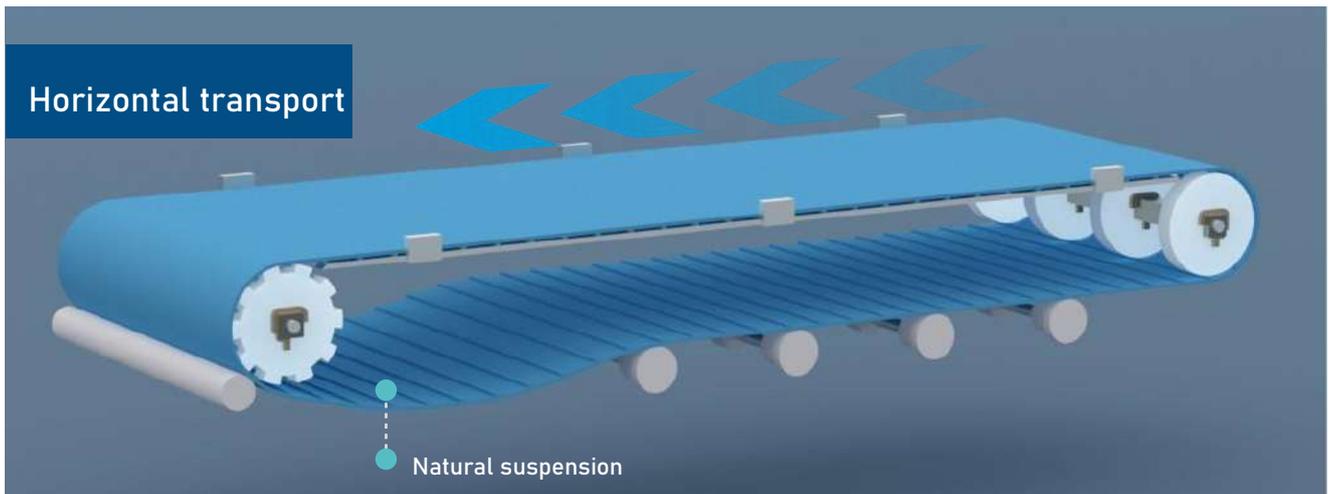
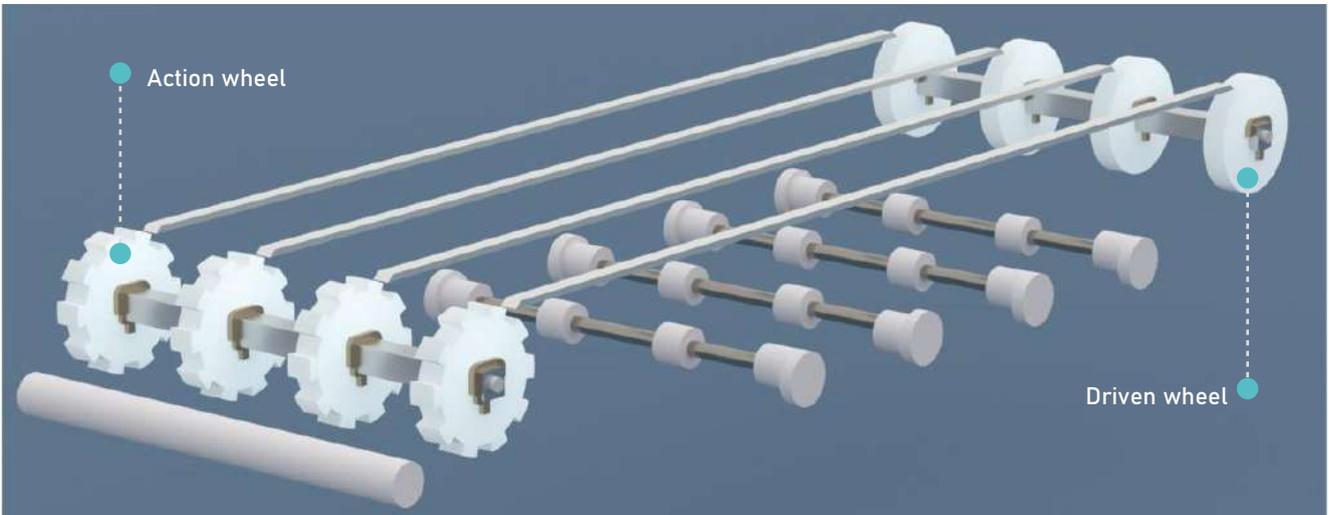
Scooped cleats

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

(Note:can be customized according to customer requirements)

P25 / P50 SERIES CONVEYOR

STRUCTURE

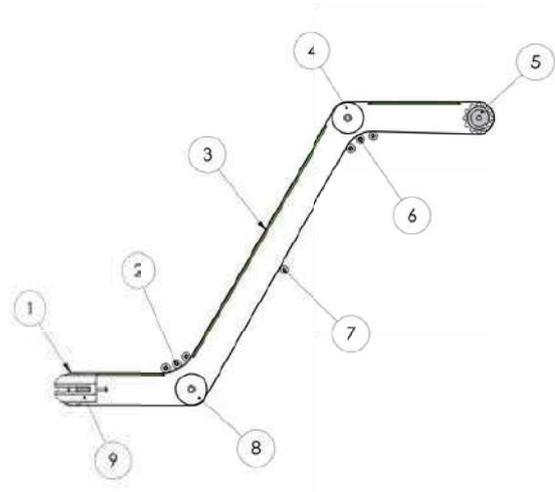


Z-SHAPE CONVEYOR STRUCTURE

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

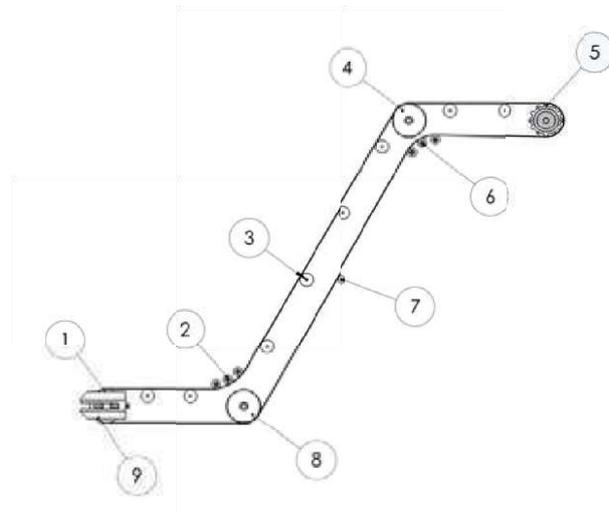
■ UHMW ultra-high polymer engineering plastic support bar slide bed structure

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)



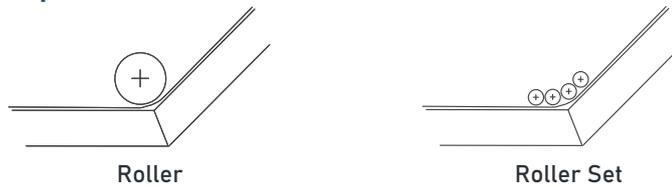
■ Roller slide bed structure

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)



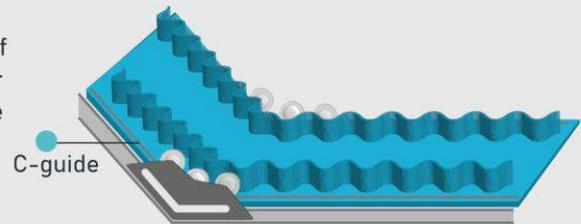
Note: In the transition zone (2 and 4), the conveyor belt will be offset towards the center of the fitting circle of the curved structure of the conveyor, resulting in high tension and friction on the components in this zone. Therefore, it is very important to use roller sets at these two transitions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

2 configuration options for the transition area



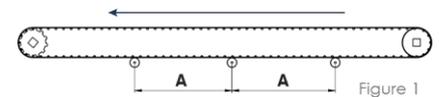
The bending angle of the conveyor belt should be as large as possible, and it should not be smaller than the minimum driving wheel diameter of the conveyor belt and its components used. The larger the bending angle, the smaller the wear. In large-angle bending parts, it is most convenient to use a roller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

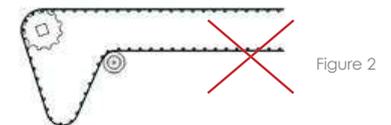


Rotary wheel

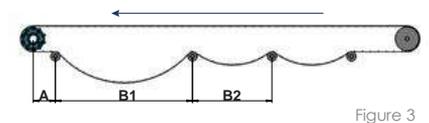
If the conveyor has a tensioning device (tensioner) and the conveyor belt has been tensioned by 0.3-0.5%, the conveyor can run regardless of the placement of the return wheels, usually the distance A between the return wheels is a maximum of 1.5 meters (Figure 1).



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.

