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SINCE 1989

# HygienePro™

Your Belting Solution Provider

NO.PT0001



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# Safe and sustainable food transportation

For decades the food industry has been striving to optimize food safety standards whilst increasing production speeds and minimizing downtime. Nowadays the increasing awareness on health, well-being and sustainability puts even more emphasis on the sourcing and processing of food.

Safe and sustainable food transportation means eliminating the risks of product contamination, and minimizing the use of natural resources or chemicals. Safe and save.

With human well-being at stake, only the best is good enough. Therefore YONGLI proudly introduces a range of products that guarantee the highest standards of safe and sustainable food transportation. Different applications require different solutions, therefore the following three sections have been identified:

① HygienePro Max

② HygienePlus +

③ HygienePro Lite



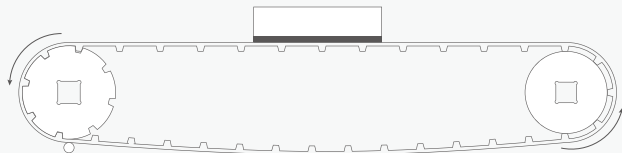
# Drive Methods



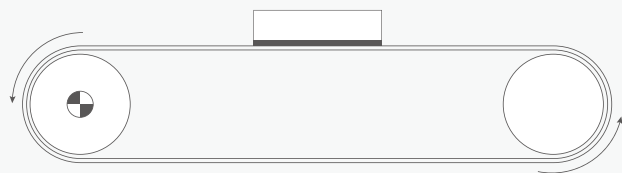
The YONGLI HygienePro product range can be divided into two sections, depending on the drive method:

**Positive Drive** The belt is driven by sprockets that perfectly engage with the toothed bottom structure of the belt. Every aspect is designed in such a way that it ensures maximum food safety, cleanability and operational stability.

What's more, thanks to the perfect sprocket engagement, positive drive belts do not require tension to operate smoothly without jumping or slippage. This is highly beneficial for the often high-on-maintenance parts of the conveyor.



**Friction Drive** Most of the common conveyors work with the tension principle, whereas the belt is tensioned between two pulleys. The belt is driven by the friction between the drive pulley and the belt. YongLi belts in the HygienePro range that follow the 'friction' principle are designed to run under tension while still following all aspects of hygienic food transportation.

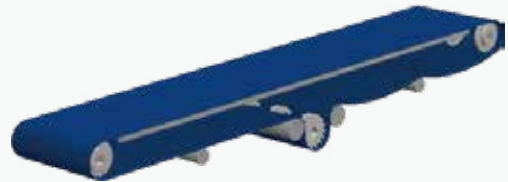


# Conveyor Designs



Horizontal

Centerdrive



Swann neck

Incline



Troughed



# HygienePro vs Standard Solutions

	Traditional Conveyor Belts or Modular Belt	YONGLI HygienePro
Exposure of fabrics	Friction between the belt and some conveyor parts may lead to fraying of the fabric, this could result in product contamination or fibres being entangled between conveyor components.	<ul style="list-style-type: none"> <li>■ Monolithic belts only consists of high quality thermoplastic elastomers from international renowned brands that are extremely durable. Fabric belts from the HygienePro range have their edges sealed and top and bottom sides coated.</li> </ul>
Ease of cleaning	Modular belts have a very open structure with each module being connected by a pin. Even the best cleaning efforts cannot get rid of all debris and bacteria. A lot of manpower and water is wasted trying to get close to clean.	<ul style="list-style-type: none"> <li>■ Smooth and homogeneous surfaces, rounded corners on accessories and good access to all sides of the conveyor belt leave no room for debris or bacteria build-up. Increasing product safety while saving time and water. A win – win situation.</li> </ul>
Absorption of liquids	Humid or very oily environments could cause regular TPU belts to crack or delaminate due to liquid absorption into the belt's fabric. This leads to immediate food safety risks and requires premature belt replacement.	<ul style="list-style-type: none"> <li>■ A completely closed surface doesn't allow any penetration of liquids. No penetration means no cracking or delamination of the belt's top cover. Increasing service life and productivity.</li> </ul>
Hydrolysis resistance	Frequent cleaning with warm water and disinfectant will accelerate the aging of the conveyor belt and reduces the adhesion between cover and fabric. With delamination as the ultimate consequence.	<ul style="list-style-type: none"> <li>■ Belts inside the HygienePro range can be especially made to ensure superior resistance to hydrolysis, even in extremely humid and steamy environment. This increases the belt's lifetime while maintaining a steady performance.</li> </ul>
Low temperature resistance	Exposure to low temperatures affect the belt's performance and joint strength, resulting in breakdown.	<ul style="list-style-type: none"> <li>■ Belts inside the HygienePro range can be especially made to ensure excellent low temperature resistance</li> </ul>

# HygienePro vs Standard Solutions

## Modular belts

→ were considered the better alternative to fabric reinforced belts in for example meat processing. However, with each belt consisting of numerous modules and pins the most extensive cleaning efforts often are insufficient. The lack of adequate cleaning gives bacteria and microorganisms time to multiply and contaminate the food that's being conveyed. A serious safety hazard.

## Fabric reinforced belts

→ have similar challenges to modular belts when it comes to cleaning. Inadequate cleaning or humid environments can cause mildew spots on the bottom fabric.

## YONGLI HygienePro Series

→ are completely closed from all sides leaving no room for bacteria to accumulate and can therefore be cleaned easily and effectively. Offering savings in time, water and maintenance.



-60%



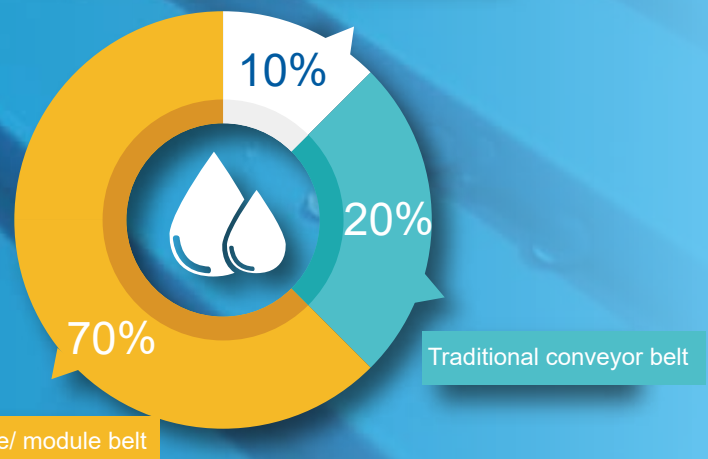
-60%



-50%



Water consumption:



\*The data is based on the existing test results of YONGLI BELTING.

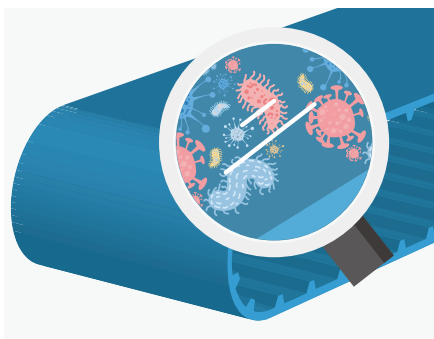
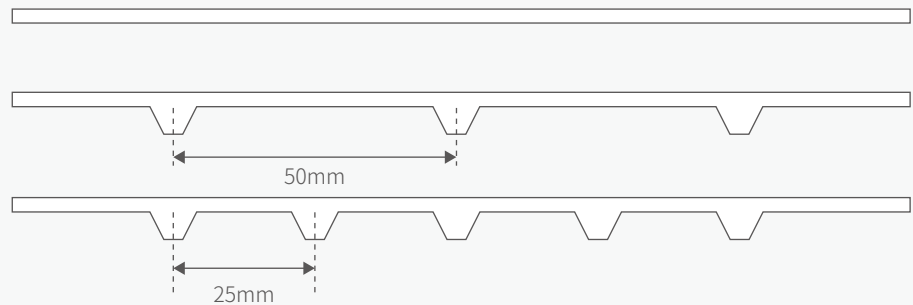
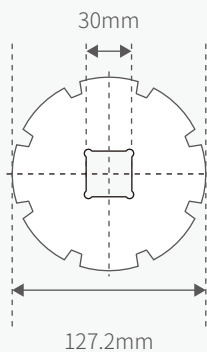
# HygienePro Max

## Summary

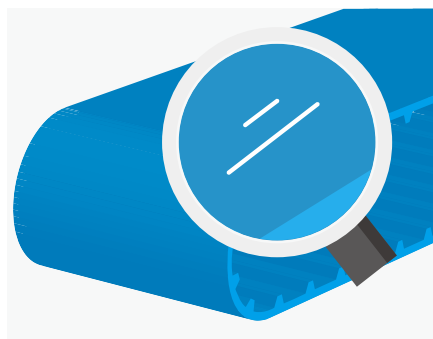
- 100% Monolithic conveyor belts without any fabric reinforcement raise the bar when it comes down to food safety. The YongLi HygienePro Max is purely monolithic material. The use of high strength thermoplastics from internationally renowned brands ensure stable product quality and exceptional chemical resistance.

## Features

- Completely eliminate any product contamination thanks to the absence of fabrics;
- Quick and easy joint with no impact on belt strength;
- Numerous fabrication possibilities;
- Advanced sprocket design to eliminate jumping of the belt;



Left: General tooth drive conveyor belt

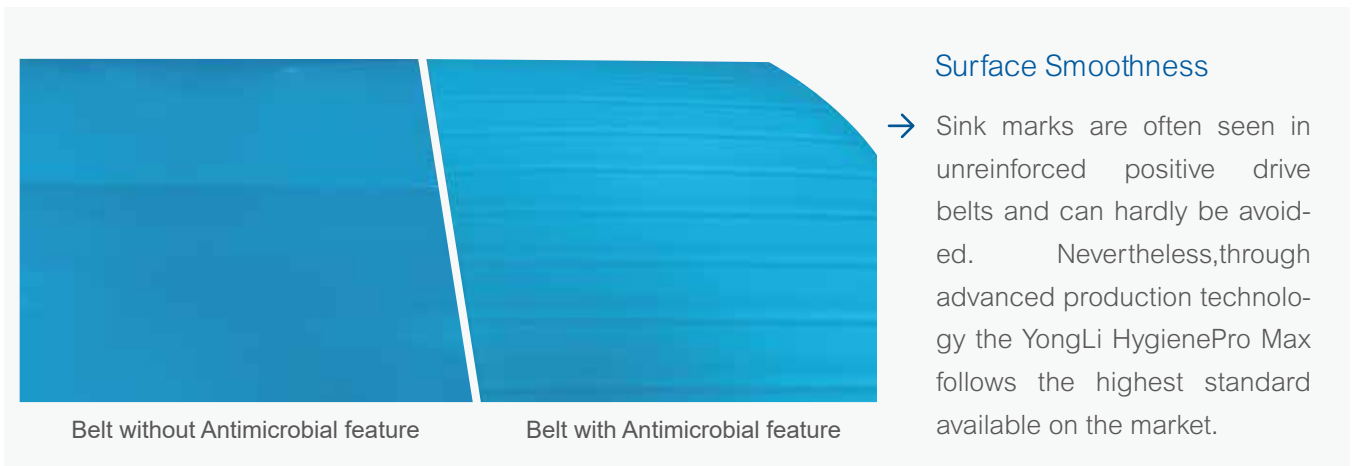


Right: Su Lijie (including ProMax and Pro)

## Antimicrobial

- An optional possibility to the HygienePro Max is the addition of an Antimicrobial component. This effectively reduces bacteria spread even during the belt's operation.





★ Irregularities can cause water and powder to remain, increasing the risk of microbial growth.

Technical parameter (part of the product)	Product code	Colour	Surface pattern	Material	Thickness (mm)	1% fixed extension force (N/mm)	Minimum roll diameter (mm)	Working temperature (°C)	Pitch (mm)	Maximum width (mm)	Antimicrobial
<b>U100 series</b>											
U130-LB	105027	Light blue	Smooth	TPU	3.0	-	80	-10/+60	-	1400	●
<b>U200 series</b>											
U230-W*	105041	Light blue	Smooth	TPU	7.6	-	-	-10/+60	50	1850	●
U231-LB	105028	Light blue	Smooth	TPU	7.6	-	-	-10/+60	50	1400	●
T230-LB	105026	Light blue	Smooth	TPU	8.3	-	-	-20/+80	50	1850	●
<b>U300 series</b>											
U320-LB	105007	Light blue	Smooth	TPU	6.0	-	-	-10/+60	25	1400	●
U321-LB2.0mm	105043	Light blue	Smooth	TPU	6.0	-	-	-10/+60	25	1400	●
U328-LB2.8mm	105044	Light blue	Smooth	TPU	6.0	-	-	-10/+60	25	1400	●
<b>U400 series</b>											
U430-LB	105047	Light blue	Smooth	TPU	1.5	-	100	-20/+60	31.5	1000	●

All data are measured in a standard environment (temperature 23°C±2°C, relative humidity 50%±5%, in accordance with ISO 554), data reliability comes from Yongli's small analog equipment and years of application experience due to application environmental deviations such as temperature, humidity and various chemical mixtures, The chemical resistance of the material changes. We strongly recommend that you observe and test our different materials in the actual environment in which you work. We cannot provide guarantees and promises for individual cases, but we are happy to provide you with advice on how to use them, as well as samples for you and test information. For details, please contact sales which authorized by YONGLI.

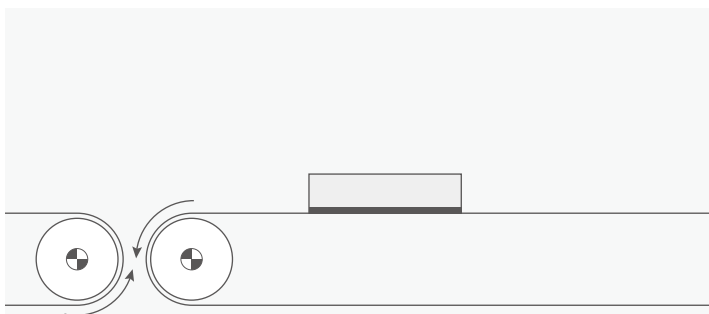
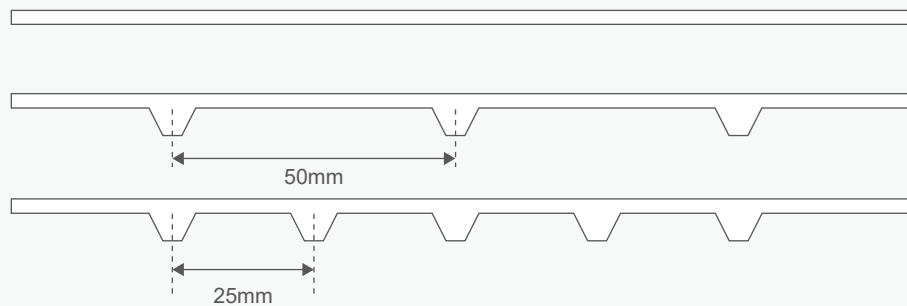
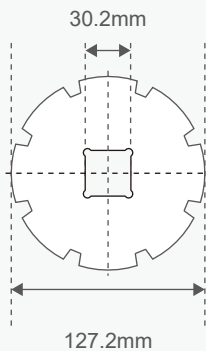
# HygienePlus +

## Summary

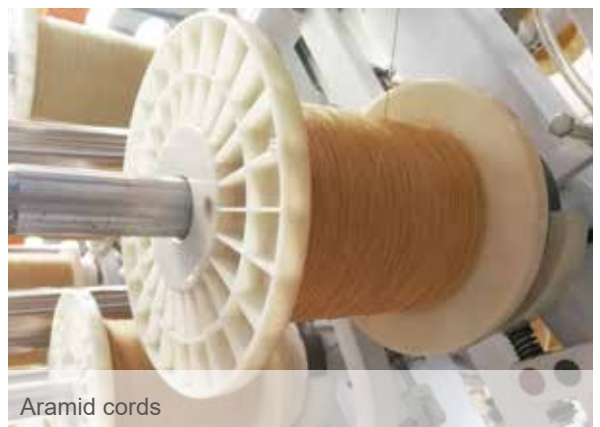
→ Aramid reinforced 'monolithic' belts both following positive drive or tension drive principle. The aramid cords ensure a higher belt strength and lower elongation compared to unreinforced monolithic belts. The Aramid cords are all the way at the core of the belt which drastically reduces the risk that it may come to the surface.

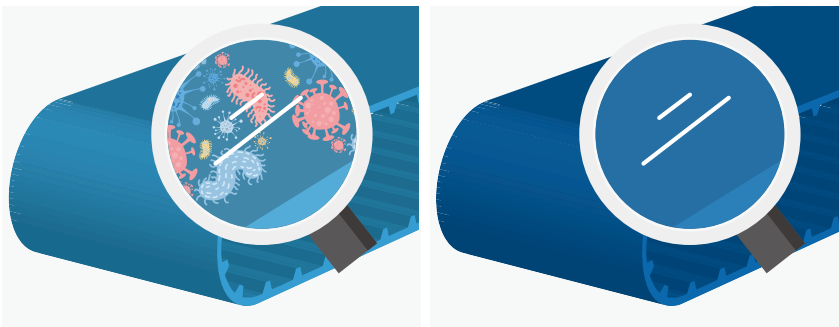
## Features

- -Aramid cord is cleverly hidden inside the core of the belt, increasing belt strength;
- -Especially suitable for long distance transportation;
- -Always antimicrobial



Compared with Su LiJie ProMax series, the raw material is softer and more suitable for small roller diameter transportation.





Left: General tooth drive conveyor belt

Right: Su Lijie (including ProMax and Plus)

### Antimicrobial

→ An optional possibility to the HygienePro Max is the addition of an Antimicrobial component. This effectively reduces bacteria spread even during the belt's operation.

Technical parameter (part of the product)	Technical parameters										
	Product code	Colour	Pattern	Material	Thickness (mm)	1% fixed extension force (N/mm)	Minimum roll diameter (mm)	Working temperature (°C)	Pitch (mm)	Maximum width (mm)	Gooseneck conveyor
<b>U100 series</b>											
U130K-DB	105039	Dark blue	Smooth	TPU	3.0	8	40	-10/+60	-	1400	●
U130/44K-W	105040	Dark blue	-	-	-	-	-	-10/+60	-	-	●
U130K-W	105038	White	Smooth	TPU	3.0	8	40	-10/+60	-	1400	●
<b>U200 series</b>											
U230K-DB	105030	Dark blue	Smooth	TPU	7.6	-	-	-10/+60	50	1400	●
U230K-W	105009	White	Smooth	TPU	7.6	-	-	-10/+60	50	1400	●
<b>U300 series</b>											
U320K-DB 2.0mm	105045	Dark blue	Smooth	TPU	6.0	-	-	-10/+60	25	1400	●

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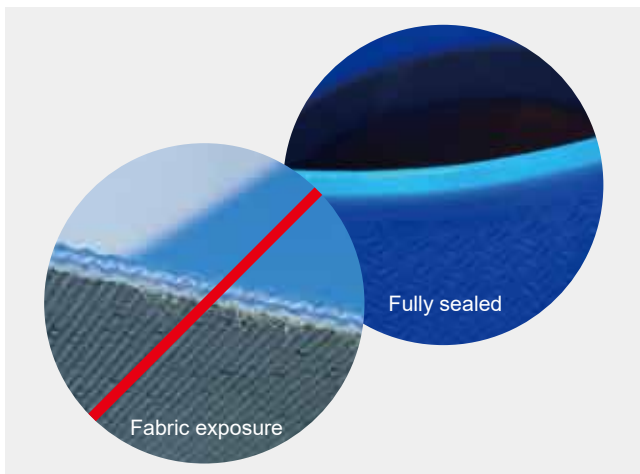
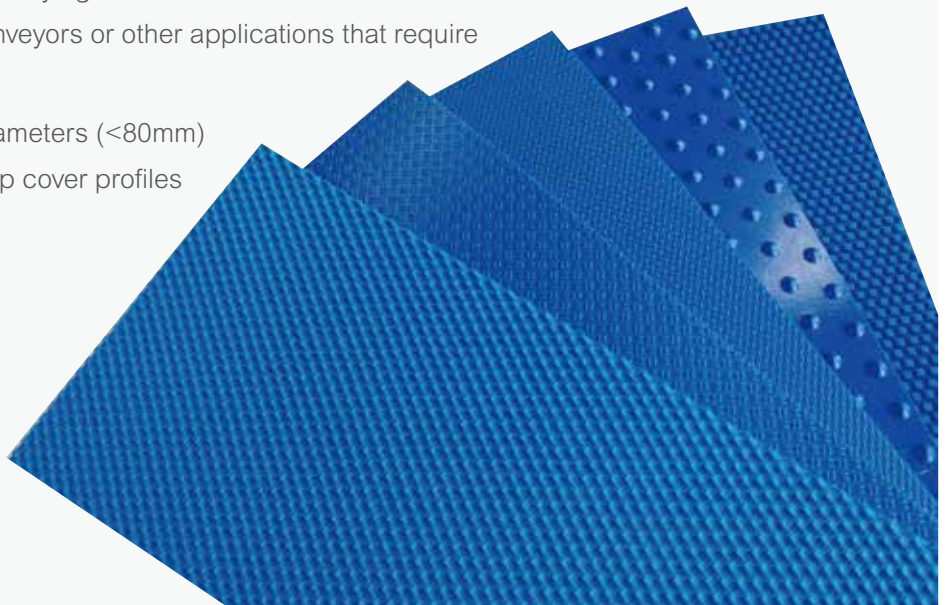
# HygienePro Lite

## Summary

- Traditional fabric reinforced conveyor belts can be made suitable for high- hygiene demanding applications by covering the belt's bottom side and sealing the edge. By doing so, the fabrics inside the belt are fully wrapped by Polyurethane and cannot contaminate the conveyed product. This can be especially beneficial in applications where a normal monolithic belt is not suitable.

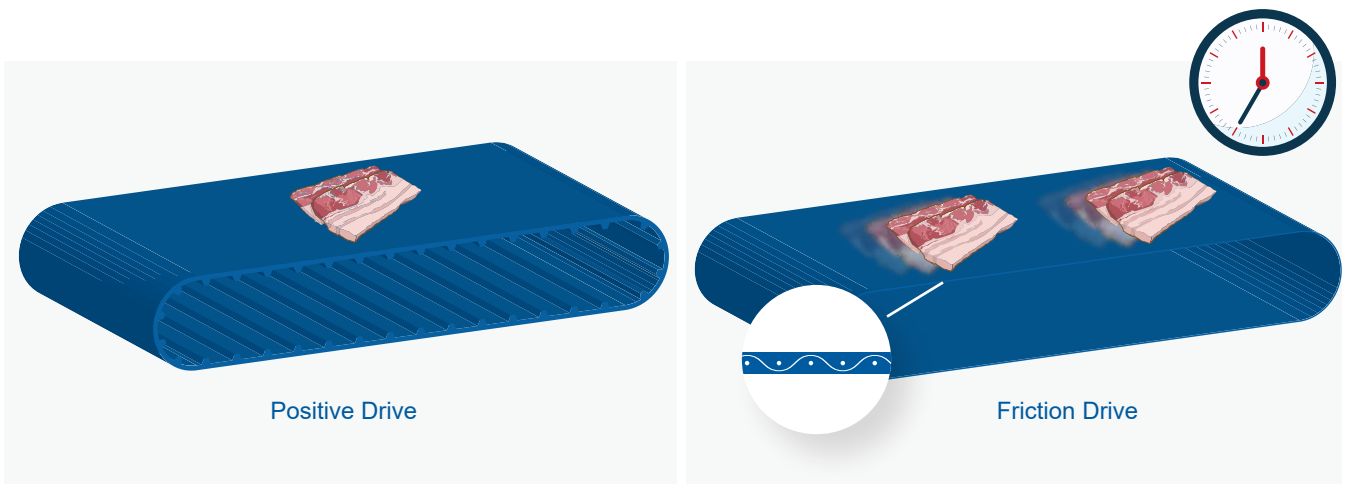
## Features

- -Suitable for high speed conveying
- -Suitable for swan neck conveyors or other applications that require high transversal rigidity
- -Allows for smaller roller diameters (<80mm)
- -Wide range of available top cover profiles



## Edge Sealing

- YONGLI uses wear-resistant polyurethane to seal the sides of the belt and spotlessly connect it to both top and bottom cover, as if it is one homogeneous surface. It prevent fabrics to fray and at the same time avoids any moisture to enter the belt.



### Meet high speed transportation requirements

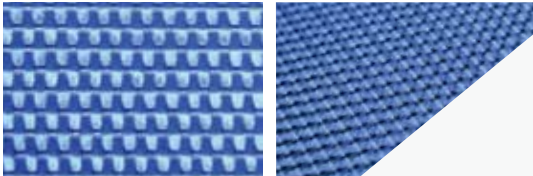
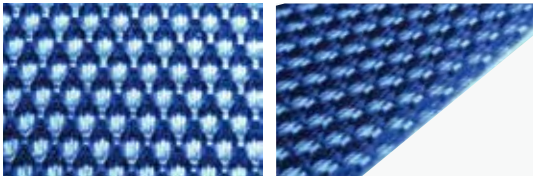
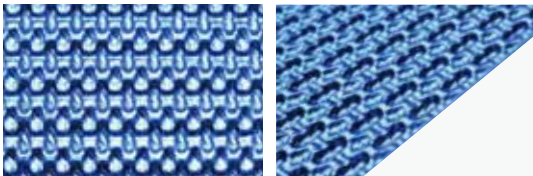
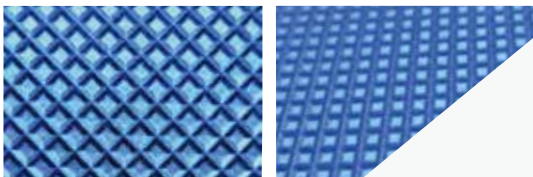

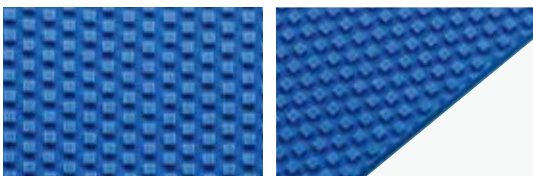
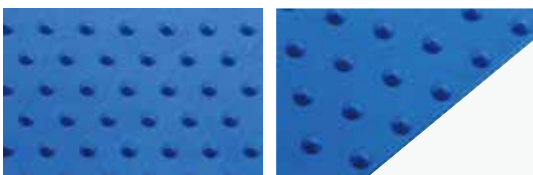
→ HygienePro Lite belts adopt the friction drive principle which allows much higher transportation speeds compared to positive drive belts. If operational speed is important, the YONGLI Lite does the job without heavily compromising on food safety.

Technical parameter (part of the product)	Technical parameters										
	Product code	Colour	Pattern	Material	Thickness (mm)	1% fixed extension force (N/mm)	Minimum roll diameter (mm)	Working temperature (°C)	Maximum width (mm)	Antimicrobial	Gooseneck conveyor
<b>U100 series</b>											
U2-80/44A	300027	Blue	Smooth/Rice	TPU	2.1	12	40	-20/+80	3200		
U2-80/2-35A	300031	Blue	Rice/ Texture fabric	TPU	3.3	12	40	-20/+80	500		
U2-80/0A	300045	Blue	smooth/Matt	TPU	2.0	12	40	-20/+80	3200		
U2-80/0-44A	300037	Blue	Matt/Rice	TPU	2.1	12	40	-20/+80	3200		
U22-80/48-2	S10594	Blue	Medium friction cloth pattern/ Texture fabric	TPU	2.7	5	40	-20/+80	1500	●	
U2F-81	300025	Blue	Smooth/diamond	TPU	2.4	10	30	-20/+80	3000		




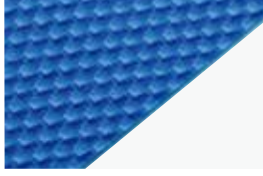






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# Profiles

Based on years of experience in the production and application of conveyor belts, YONGLI has developed more than 80 profiles to meet the transportation requirements on different working conditions. The following are some of the profiles available:

2		Rough texture fabric
7		Golf
12		Mini grip
17		Shallow diamond
26		Texture Fabric
35		Small nipple(Sharp)
36		Cone

In addition to the profiles mentioned above, YongLi also has other profiles for you to choose from. Newly developed products will also continue to join the YongLi product series to meet diversified market demands. For more information, please visit our official website: [www.yonglibelt.com](http://www.yonglibelt.com).

44			Rice
48			Mini grip fabric
51			Mini diamond
68			Triangle rib
78			Longitudinal rib)

In addition to the profiles mentioned above, YongLi also has other profiles for you to choose from. Newly developed products will also continue to join the YongLi product series to meet diversified market demands. For more information, please visit our official website: [www.yonglibelt.com](http://www.yonglibelt.com).

# Application Fields

YONGLI HygienePro belts can prove their benefits in many segments of the food industry:



## Meat, Poultry & Seafood

- Reduce labour costs
- Clean & Hygienic operation
- High speed operation
- Increase production capacity



## Snacks

- Non-sticking top surface
- Good suitability for oily environmen
- Comply to high cleaning requirements



## Fruits & Vegetables

- Excellent suitability to work in humid environments
- Perforation possibilities to allow dewatering



## Cooling

- Good low temperature suitability
- Good resistance to hydrolysis



## Dairy

- Suitable for both low and heavy loads
- High surface impact resistance
- Excellent oil resistance



# Sprocket information

25mm Pitch

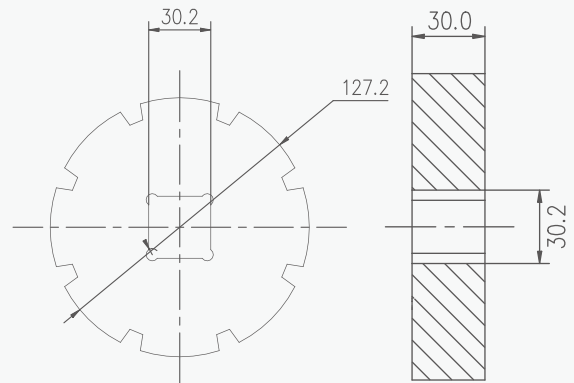
50mm Pitch

Product number	material	Number of teeth	Outer diameter (mm)	Product number	material	Number of teeth	Outer diameter (mm)
S25C6N-A	HDPE	6	49.5	S50C8N-A	HDPE	8	127.2
S25C8N-A	HDPE	8	66.6	S50C10N-A	HDPE	10	160.0
S25C10N-A	HDPE	10	83.7	S50C12N-A	HDPE	12	193.0
S25C12N-A	HDPE	12	100.7	-	-	-	-
S25C14N-A	HDPE	14	117.8	-	-	-	-
S25C16N-A	HDPE	16	134.8	-	-	-	-

8 Tooth sprocket



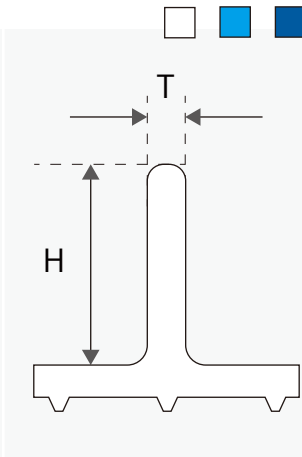
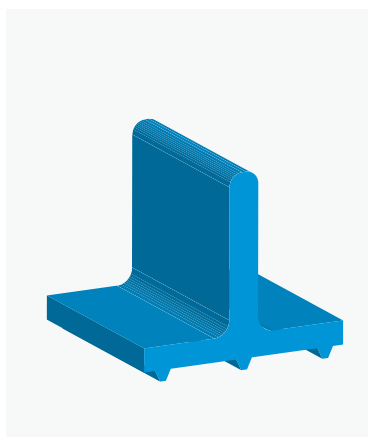
8 Tooth sprocket



# Accessories

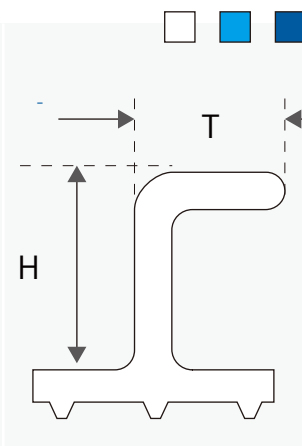
YONGLI offers a wide range of fabrication solutions to ensure complete control over the product that is being conveyed. Success in operation is not only determined by the quality of the belt itself, but also the quality of the fabrication is of vital importance. YongLi cleat-, sidewall and V-guide materials are designed to ensure a perfect match to the belt.

## Straight cleats

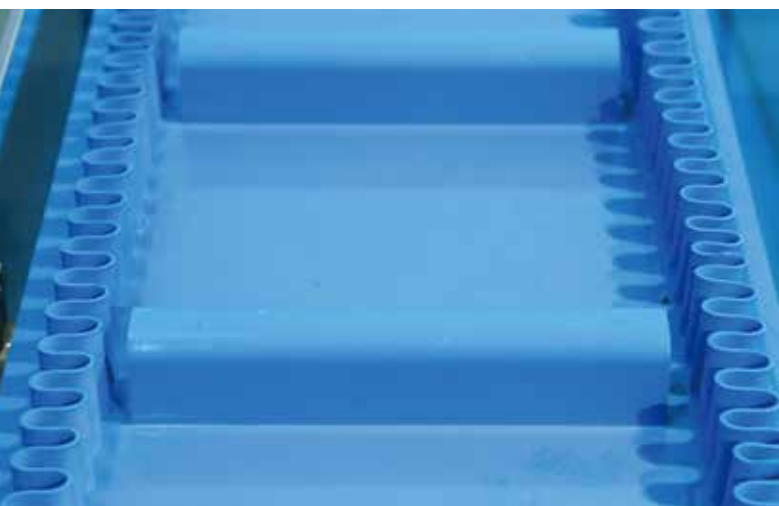


Product number	Specification (mm)		Minimum pitch	minimum roller diameter
	T	H		
UNTB30	6	30	200	60
UNTB40	6	40	200	60
UNTB50	6	50	200	60
UNTB60	6	60	200	60
UNTB70	6	70	200	60
UNTB80	6	80	200	60
UNTB90	6	90	200	60
UNTB100	6	100	200	60
UNTB110	6	110	200	60
UNTB120	6	120	200	60

## Scooped cleats



Product number	Specification (mm)		Minimum pitch	minimum roller diameter
	T	H		
UWTB50x30	30	50	200	60
UWTB70x30	30	70	200	60
UWTB90x30	30	90	200	60
UWTB110x40	40	110	200	60
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



# Accessories

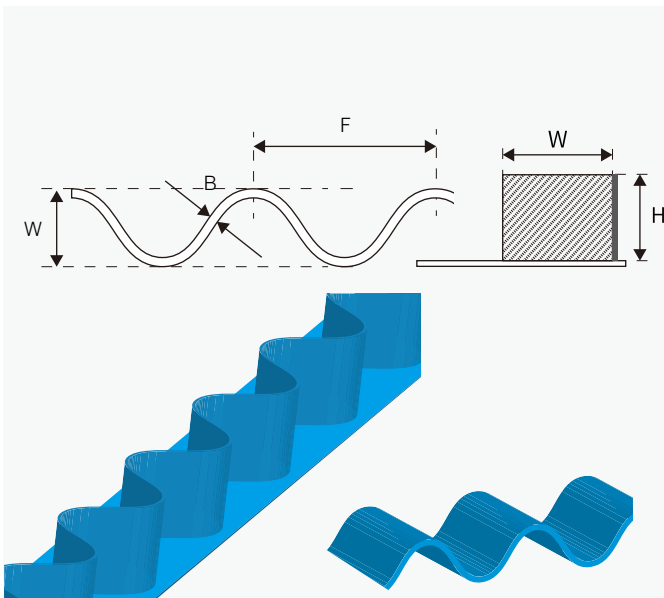
## Sidewalls

□ ■ ■ V-guide

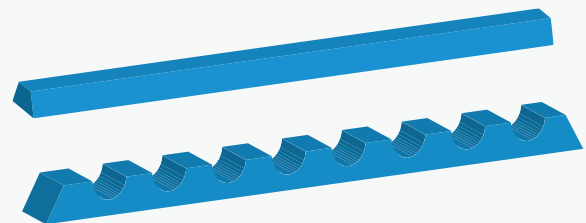
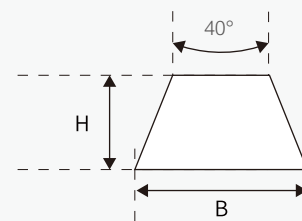
□ ■ ■

Product number	Specification (mm)				hardness ShoreA	minimum roller diameter
	B	H	W	F		
USW13-20	1.3	20	20	25	85	30
USW13-25	1.3	25	20	25	85	40
USW13-30	1.3	30	20	25	85	50
USW13-35	1.3	35	20	25	85	60
USW13-40	1.3	40	20	25	85	70
USW13-50	1.3	50	20	25	85	80

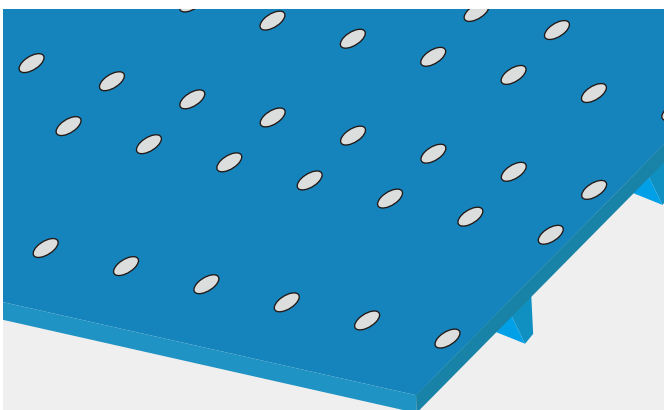
Product number	Specification (mm)		Hardness Shore	minimum roller diameter		Tooth
	B	H		positive	back	
UD6	6	4	70	40	30	
UD8	8	5	70	50	40	
UD10	10	6	70	70	60	
UD13	13	8	70	100	80	
UDKC6	4	4	70	-	20	
UDKC8	6	5	70	-	30	●
UDKC10	8	6	70	-	50	
UDKC13	13	8	70	-	70	●



- Prevent materials from falling and improve operational stability;
- Improve conveying efficiency.



- V-guide can be welded to the top surface of the belt to serve as cleat



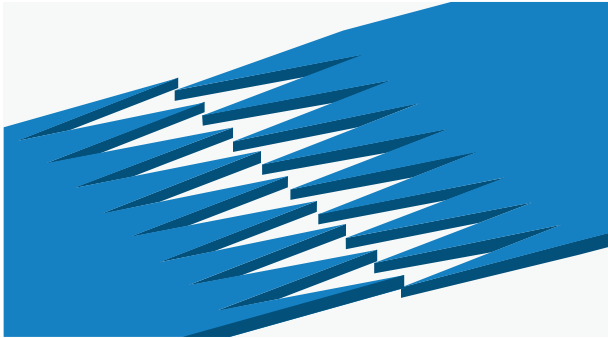
## Perforations

- Perforations can be suitable for drainage, dewatering or product sorting.

# Joint Methods

## ■ Thermoweldable joint:

By applying heat and pressure the thermoplastic polyurethane is melted together into a very strong connection without the use of any additives. This is the strongest and most hygienic solution.



### Finger Joint

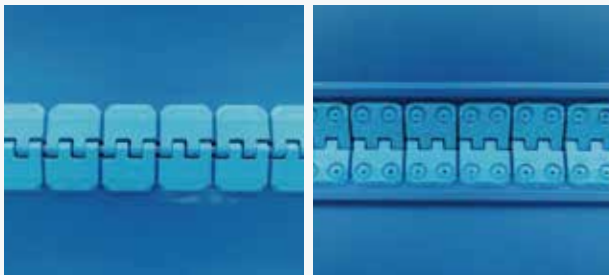
→ Both belt ends are cut in finger shape and made endless using specialized tooling. The large contact area of the fingers ensure a high joint strength once melted together.

### Butt-welding

→ Because of the toothed bottom structure of positive drive belts, the joint area should be very narrow and should not change the pitch of the teeth. Butt-welding ensures a strong and spotless joint without harming the bottom structure of the belt.

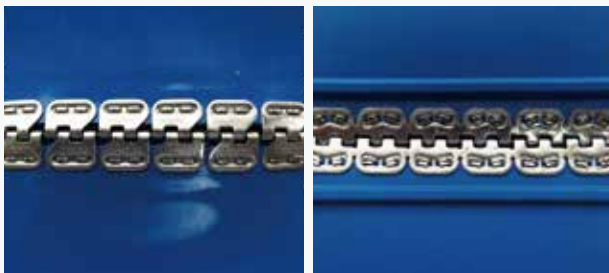
## ■ Mechanical Joint

Mechanical fasteners can be especially suitable for frequent disassembly or in case dedicated welding tools are not available. Please do note that a mechanical joint can be affecting the belt's strength or hygiene level.



### Plastic

- Suitable for all belt types within the HygienePro product ranges
- Especially suitable to be used in combination with metal detectors
- Maximum width of 1100mm
- Minimum roller diameter of 120mm

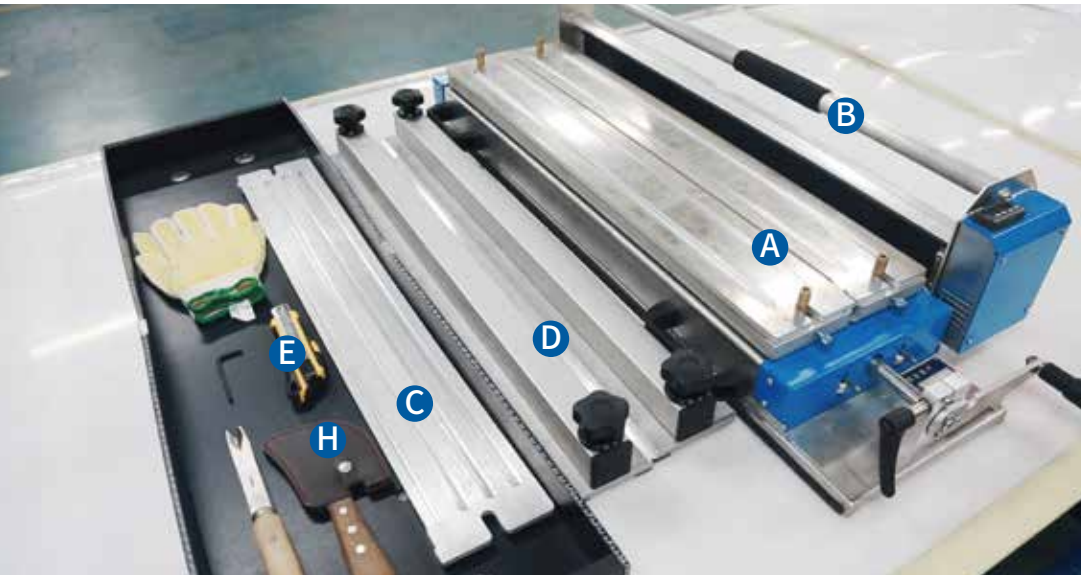


### Stainless Steel

- Suitable for belt types with a base thickness from 1,5mm to 5,0mm
- Suitable for all widths
- Sacrifices a part of the hygiene concept because of gaps inside the fastener

# Joint Methods

## ■ Splicing Machine



The complete welding kit includes:

- A. Welding press
- B. Heater
- C. Positioning plate
- D. Fixed frame
- E. Utility knife
- F. Tool gloves
- G. Shovel
- H. Cutter



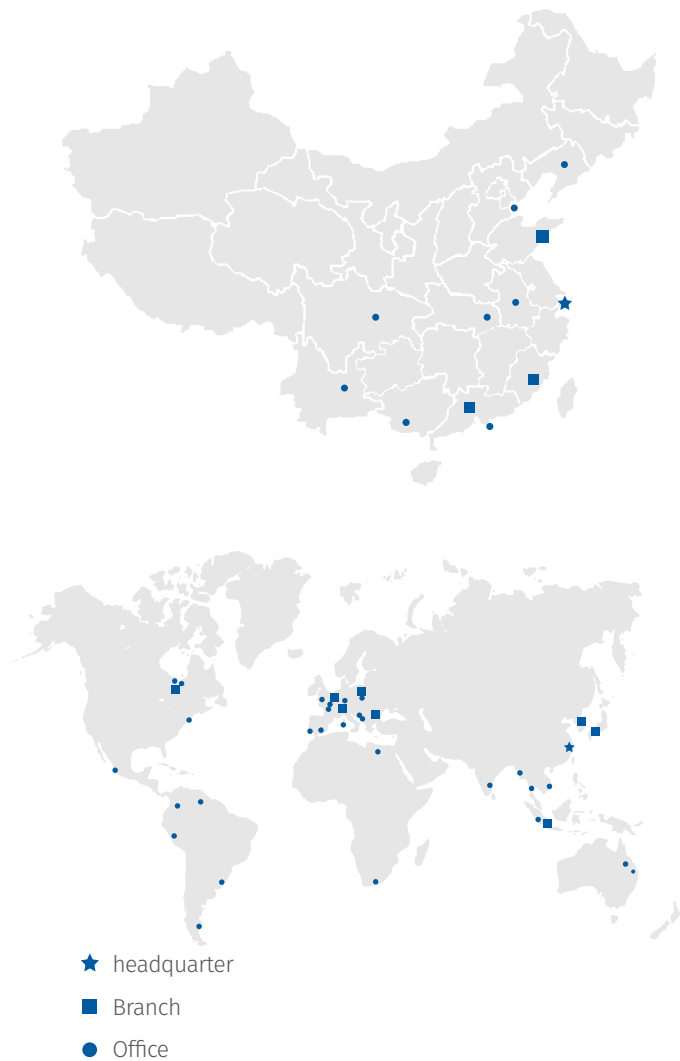
Positioning board (effect drawing)	Product number	Maximum width (mm)	Pitch (mm)
	PLAQMD400-DD50	400	50
	PLAQMD650-DD50	650	50
	PLAQMD1100-DD50	1100	50
	PLAQMD400-DD25	400	25
	PLAQMD650-DD25	650	25
	PLAQMD1100-DD25	1100	25

# Global Sales & Service Network



## Global reach, local service

The market has entered a period of fierce competition, and a complete service system has become one of the important factors supporting the brand to gain a foothold in the market. In order to continuously adapt to the development requirements of the market, YONGLI BELTING has set up professional service groups in various countries and regions, equipped with full-time service personnel to handle the company's products before, during and after sales. For the domestic Jiangsu, Zhejiang and Shanghai regions, we promise to respond within 3 hours and other regions within 8 hours.



### Domestic branch

Guangdong Branch  
Tel: 0757 - 8629 0776

Qingdao Branch  
Tel: 0532 - 8565 7572

Fujian Branch  
Tel: 0592 - 5564 555

Chengdu Branch  
Tel: 028 - 8444 0592

Nanning Office  
Tel: 0771-5716 476

Wuhan Office  
Tel: 027 - 8422 6061

Tianjin Office  
Tel: 022 - 2775 2490

Kunming Office  
Tel: 0871 - 6561 0319

Shenyang Office  
Tel: 024 - 2291 6018

Shenzhen Office  
Tel: 0755 - 2350 3696

Hefei Office  
Tel: 0551-6349 1132

Zhengzhou Office  
Tel: 0371 - 5505 9523

### Foreign branch

YONGLI Europe  
Tel:+31-226-399-928

YONGLI America  
Tel:+1-219-763-7920

YONGLI Korea  
Tel:+82-31-953-4062

YONGLI Indonesia  
Tel:+62-21-22652866-68

YONGLI Germany  
Tel:+31-475-53-5700

YONGLI Austria  
Tel:+43-662-876030

YONGLI Poland  
Tel:+48-523-954-460

YONGLI Japan  
Tel:+81-03-6880-9201

# Full Product Range

## Your belting solution provider

Since its establishment in 1989, YongLi has always been working to become a total belting solution provider. With a strong focus on research and development, innovation is in the DNA of our company. In recent years, with the implementation of new production technologies, advancements in product development and closely monitoring market trends, YongLi is stepping up to become not just a producer of light duty conveyor belts, but rather a manufacturer of total belting solutions.

With a strong customer orientation, people at YongLi walk the extra mile to innovate together with our customers and find the right solution for every application. YongLi is not just any belting solution provider, we are Your belting solution provider.



Conveyor belt



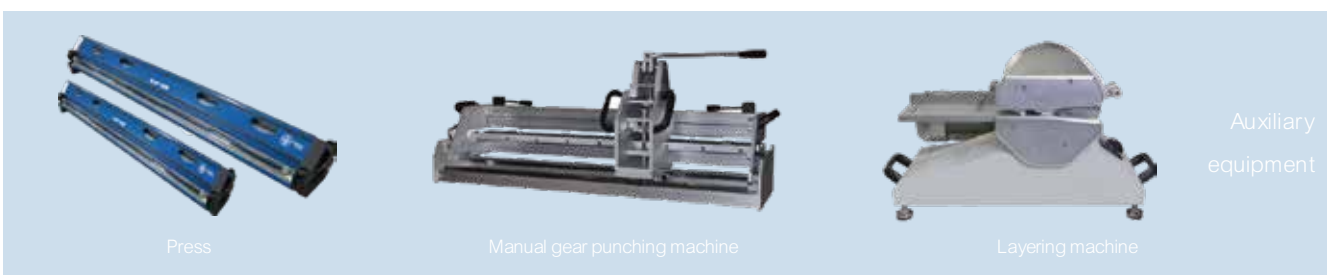
Module belt



Timing belt



Efficient flat belt



Press

Manual gear punching machine

Layering machine

Auxiliary equipment

## SHANGHAI YONGLI BELTING CO.,LTD

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Website