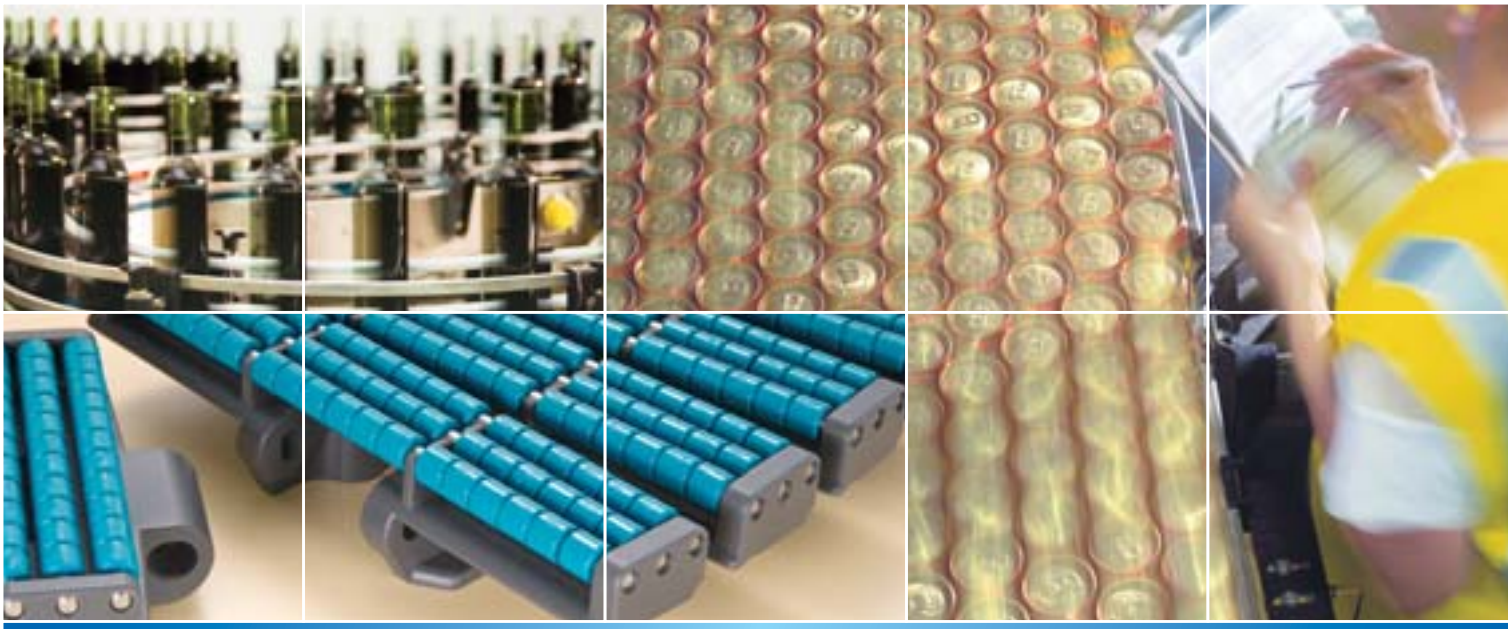


Innovation in Motion

TSUBAKI

PLASTIC CHAIN

Providing Innovative Solutions for the Global Beverage Industry

Innovation in

At Tsubaki, we know customers want the best. Indeed, we take pride in our ability to deliver an extensive product line-up that satisfies these high expectations. We are also aware that each and every one of our customers has unique requirements. Therefore, we believe that in the coming years there will be an increase in demand for products that can be readily applied to customers' global operational strategies. In other words, we foresee a rise in the need for highly customized products.

Our focus is on providing our customers around the world with concrete solutions by developing products to suit different countries, regions, and business environments.

Innovation in Motion. With an eye on future trends and lifestyles, we are committed to taking on the challenge of technical innovation. Based on our brand message, which embodies the commitment shared by all Group members around the world, the Tsubaki Group provides solid support for the global business activities of its customers. You can count on Tsubaki.

Tsubaki Global Business

Global Network

The Tsubaki Group includes 28 production locations and 35 group companies worldwide. Our production and sales networks are more fully developed than ever.

Global Alliances

We continue to aggressively pursue operational alliances, mergers, and technical alliances with companies in Japan and throughout the world.

Best Source / Best Supply

Through global development of our network, we constantly seek the best combination of regions based on product distribution and market feedback.

Global Marketing

With a keen grasp of the needs of customers, we use the Group's comprehensive strengths to commercialize products rapidly.

Motion

A Wide Range of Products

By carefully considering the problems that most chain users encounter, Tsubakimoto Chain Co. has been able to develop an impressive line-up that includes ultra low-friction, chemical-resistant, and impact-resistant chains as well as plastic pins and high temperature/anti-bacterial applications.

Unique Tsubaki Technology

To combat problems customers were experiencing with stainless steel knurled pins, Tsubaki developed a unique plastic D-pin, which is now used by more than 70% of plastic top chain users in Japan. One side of the D-pin is flat, with two protrusions. These protrusions hold the hinges of the link plates in the center of the chain, securing the pin in the proper position. They can be removed from either side of the chain during disassembly.

Problems with Conventional Stainless Steel Knurled Pins

Knurled pins present several disadvantages. They twist into and cut the soft plastic material of the hole, creating deformation and excessive residual stress on the hinges, which can lead to chain failure. Further, the pin can only be removed from one direction; otherwise, serious hinge damage will result. Pin rotation and dislocation from the hinged portion of the link plate under high-speed dry operation is also a constant concern.

Long Life

A combination of proprietary Tsubaki materials gives the chain outstanding wear resistance between pin and hinges under dry, soapy, or wet conditions. Extremely effective when water acts as lubricant.

Less Noise & Vibration

Chains are 15%–25% lighter than stainless steel knurled pin top chains, creating less dynamic energy and thus less noise and vibration.

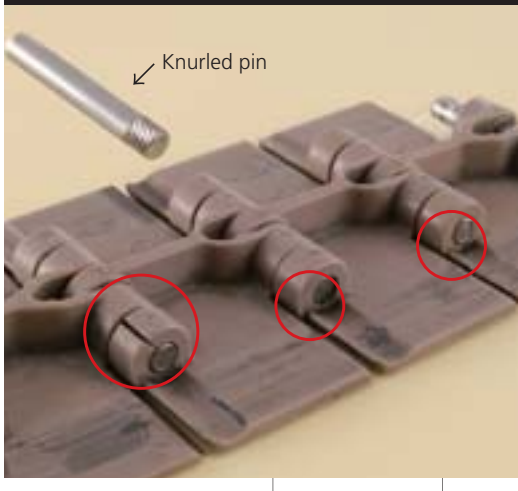
Lower Running Costs

A lighter chain means less tension, significantly reducing the amount of energy needed to run the chain.

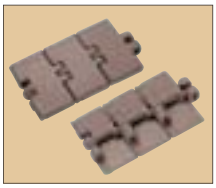
Easier to Handle

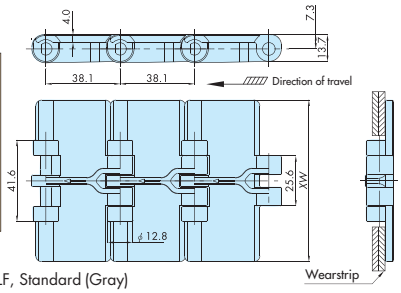
The lighter weight makes the chain very user-friendly. Maintenance is easy, as the plastic D-pins can be inserted or removed from either side of the chain.

Problems



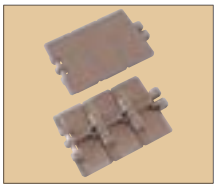
1. TTP

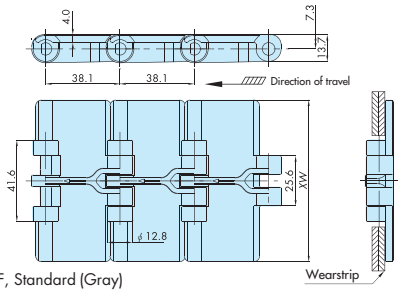




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width XW (mm) : 82.6, 101.6, 114.3, 152.4, 190.5
- Pin material : Stainless steel
- Standard type (820 type)

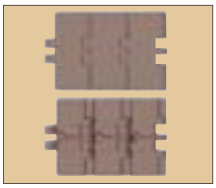
2. TTP-P < Plastic D-Pin Chain >

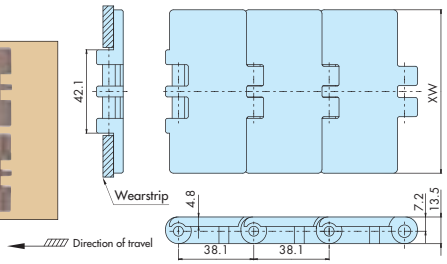




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width XW (mm) : 82.6, 101.6, 114.3, 152.4, 190.5
- Pin material : Plastic
- Standard plastic pin type (Tsubaki Original)

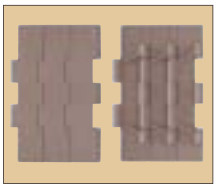
3. TTPT

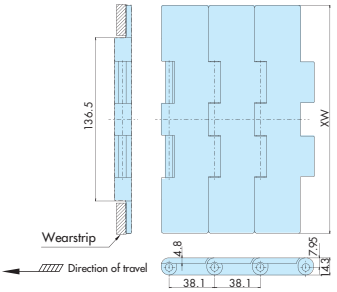




- Material : LFB
- Width XW (mm) : 82.6, 114.3, 190.5
- Pin material : Stainless steel
- Plate thickness 4.8 mm type (831 type)

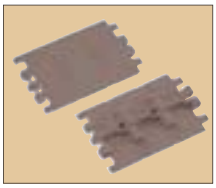
4. TTPDH

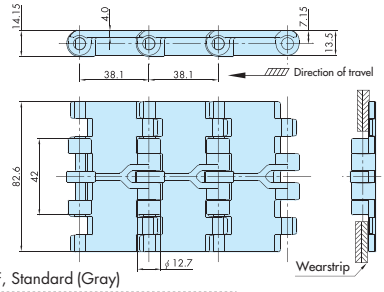




- Material : LFB, Standard (Gray)
- Width XW (mm) : 190.5, 254.0, 304.8
- Pin material : Stainless steel
- Double hinge type (821 type)

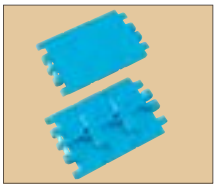
5. TTPH

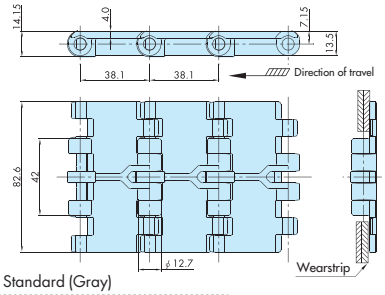




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

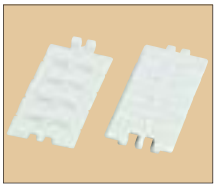
6. TTPH-P < Plastic D-Pin Chain >

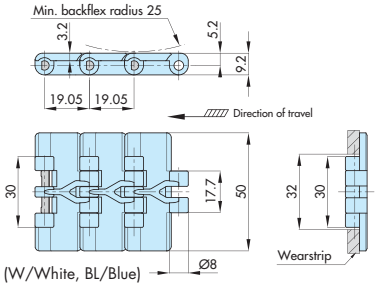




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Plastic
- Better product support (Tsubaki Original)

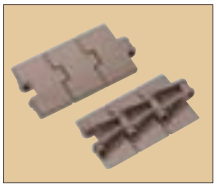
7. TTPM

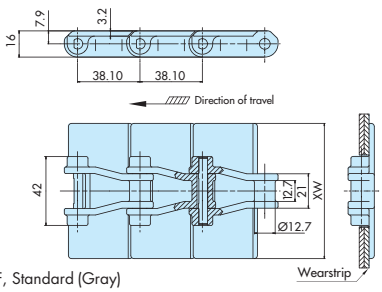




- Material : LFB, ULF, Standard (W/White, BL/Blue)
- Width (mm) : 50.0
- Pin material : Stainless steel
- Small pitch (Tsubaki Original)

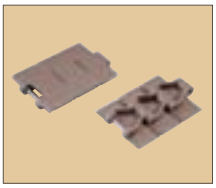
8. TPF

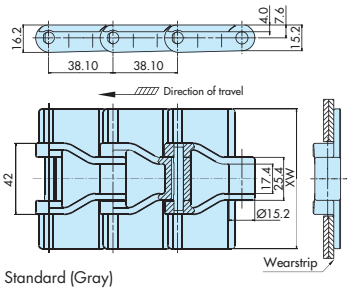




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width XW (mm) : 76.2, 82.6
- Pin material : Stainless steel
- Reinforced type (Tsubaki Original)

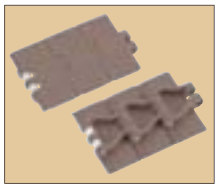
9. TPS

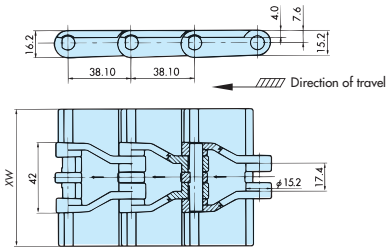




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width XW (mm) : 82.6, 101.6, 114.3, 127.0
- Pin material : Stainless steel
- Reinforced type (Tsubaki Original)

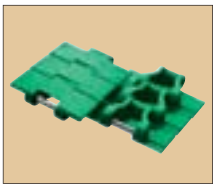
10. TPS-P < Plastic D-Pin Chain >

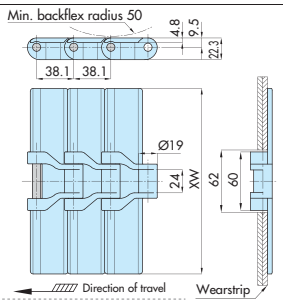




- Material : LFB, LFG, LFW, ULF
- Width XW (mm) : 82.6, 114.3
- Pin material : Plastic
- Reinforced plastic pin type (Tsubaki Original)

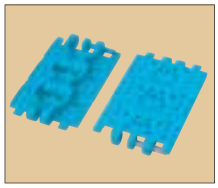
11. TPSS

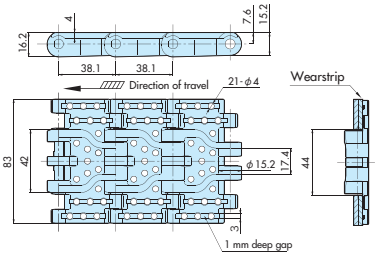




- Material : LFB, LFG
- Width XW (mm) : 114.3, 127.0, 152.4, 190.5
- Pin material : Stainless steel
- Reinforced type (Tsubaki Original)

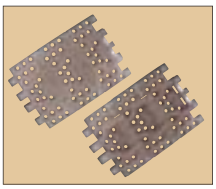
12. TPH

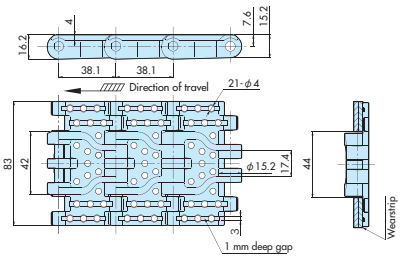




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 83.0
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

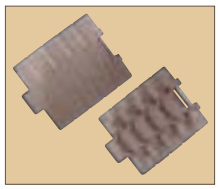
13. TPH-P < Plastic D-Pin Chain >

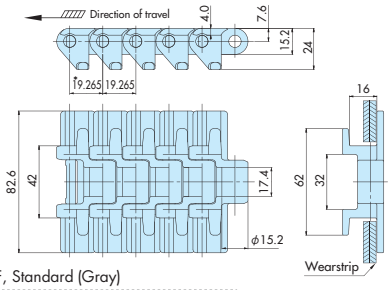




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 83.0
- Pin material : Plastic
- Better product support (Tsubaki Original)

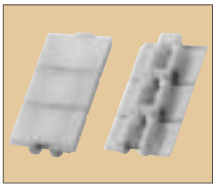
14. TPM

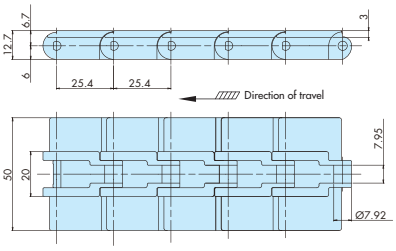




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Stainless steel
- Small pitch (Tsubaki Original)

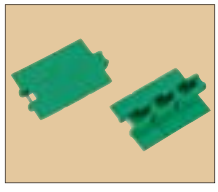
15. TPRF2040

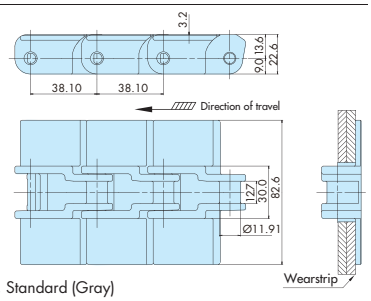




- Material : LFB, LFG, LFW, ULF, Standard (White)
- Width (mm) : 50.0
- Pin material : Stainless steel
- Small pitch (Tsubaki Original)

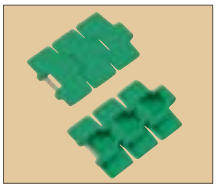
16. TPRF2060

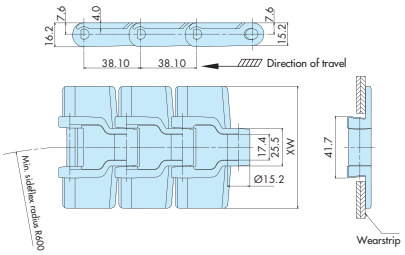




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

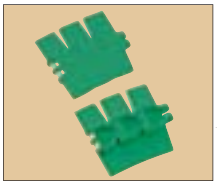
1. TTUP

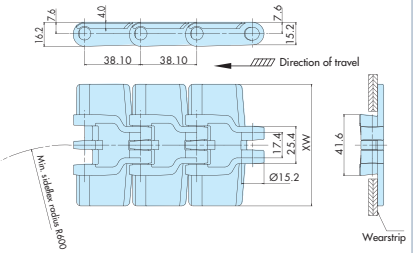




- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width XW (mm) : 82.6, 114.3, 190.5
- Pin material : Stainless steel
- Standard type (880 type)

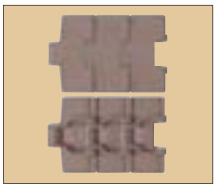
2. TTUP-P < Plastic D-Pin Chain >

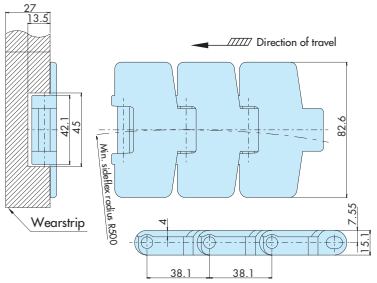




- Material : LFB, LFG, LFW, ULF
- Width XW (mm) : 82.6, 114.3
- Pin material : Plastic
- Standard plastic pin type (Tsubaki Original)

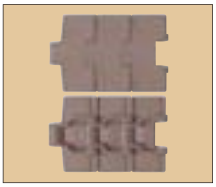
3. TTUP-M

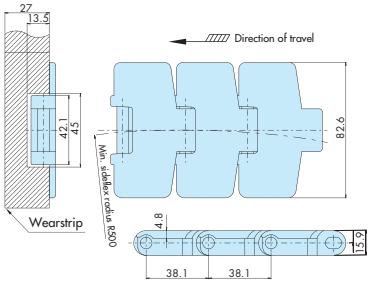




- Material : LFB
- Width (mm) : 82.6
- Pin material : Stainless steel
- Magnetic system type (880M type)

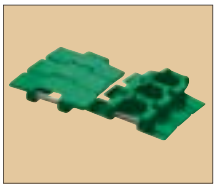
4. TTUPT-M

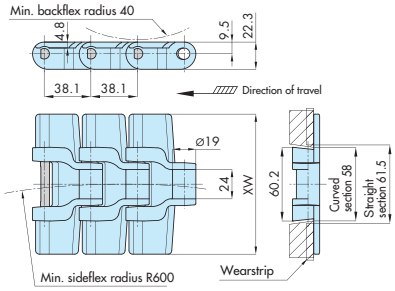




- Material : LFB
- Width (mm) : 82.6
- Pin material : Stainless steel
- Magnetic system & plate thickness 4.8 mm type (879M type)

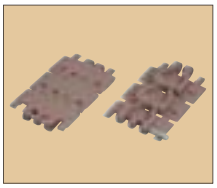
5. TTUPS

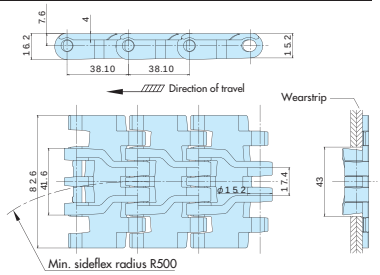




- Material : LFG
- Width XW (mm) : 114.3, 190.5
- Pin material : Stainless steel
- Reinforced type (Tsubaki Original)

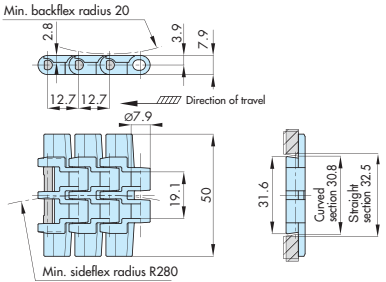
6. TTUPH





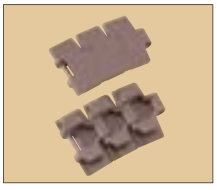
- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

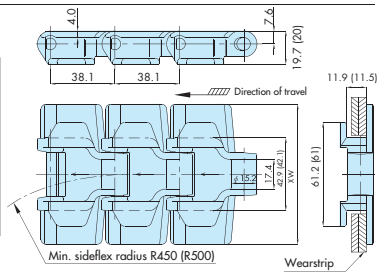
7. TTUPM-P < Plastic D-Pin Chain >



- Material : LFB, LFW
- Width (mm) : 50.0
- Pin material : Plastic
- Small pitch (Tsubaki Original)

8. TPU-LH

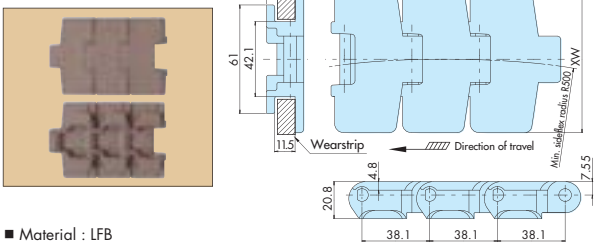




- Material : LFB, ULF (114.3 mm width LFB only)
- Height (mm) : 20
- Width XW (mm) : 82.6, 114.3
- Pin material : Stainless steel
- Standard tab type (880TAB type)

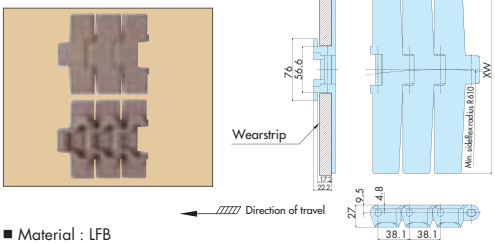
Note: ( )= width 114.3 mm version

9. TPUT



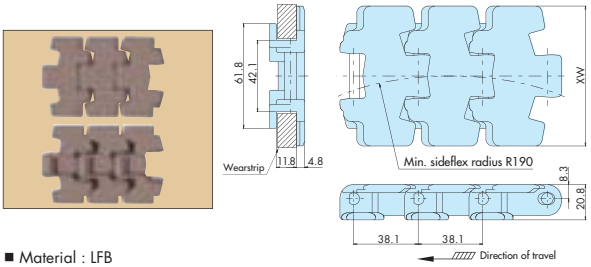
- Material : LFB
- Width XW (mm) : 82.6, 114.3
- Pin material : Stainless steel
- Standard tab & plate thickness 4.8 mm type (879TAB type)

10. TPUS



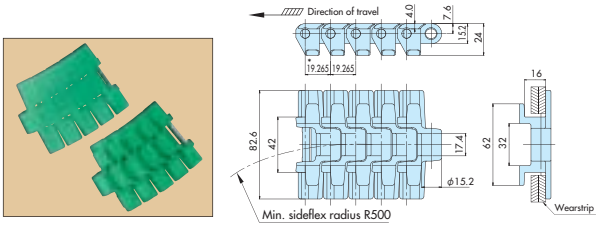
- Material : LFB
- Width XW (mm) : 114.3, 190.5, 254.0, 304.8
- Pin material : Stainless steel
- Reinforced tab type (882TAB)

11. TPUH-BO



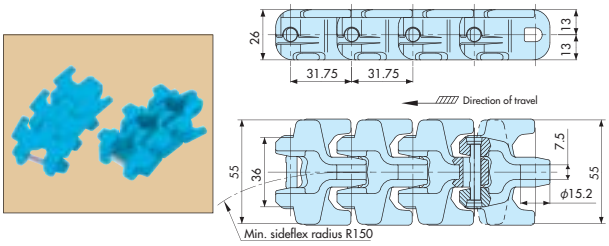
- Material : LFB
- Width XW (mm) : 82.6, 114.3
- Pin material : Stainless steel
- Small sideflexing radius (879TAB-BO type)

12. TPUM



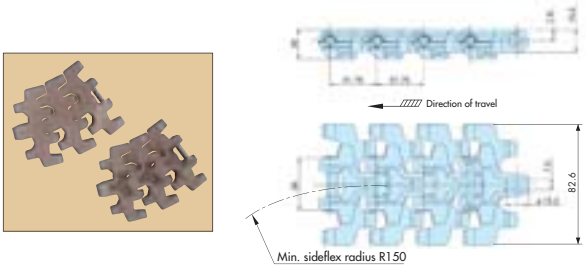
- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Stainless steel
- Small pitch (Tsubaki Original)

13. TPUSR550-T



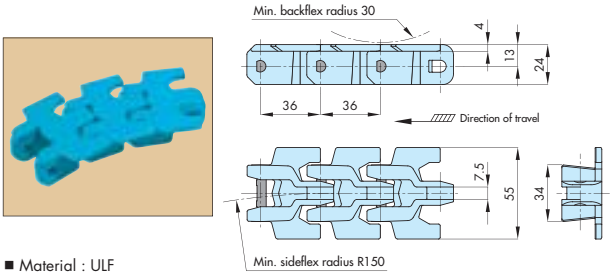
- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 55.0
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

14. TPUSR826-T



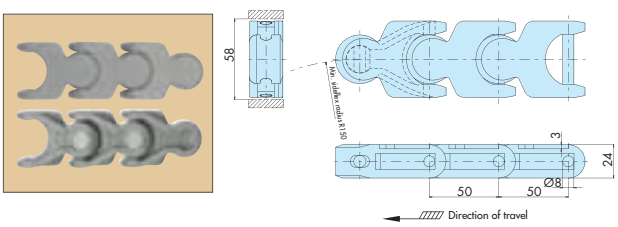
- Material : LFB, LFG, LFW, ULF, Standard (Gray)
- Width (mm) : 82.6
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

15. UB36



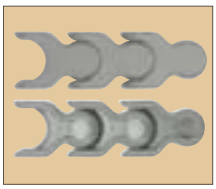
- Material : ULF
- Width (mm) : 55.0
- Pin material : Stainless steel
- Better product support (Tsubaki Original)

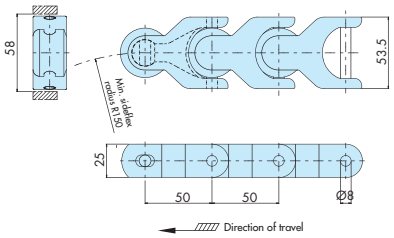
16. TPUN550-LH



- Material : Standard (Gray)
- Width (mm) : 55.0
- Pin material : Stainless steel
- Small sideflexing radius (1700 type)

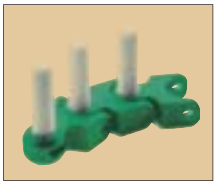
17. TPUN535-LH

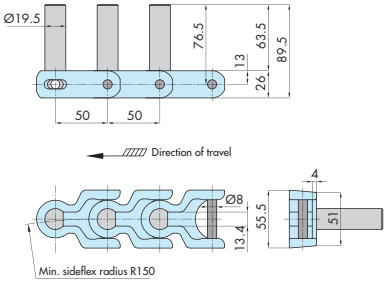




- Material : Standard (Gray)
- Width (mm) : 53.5
- Pin material : Stainless steel
- Small sideflexing radius (1702 type)

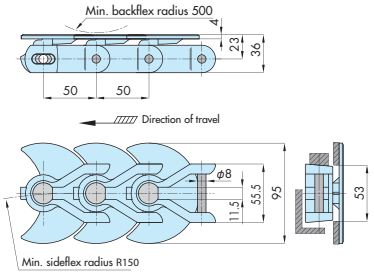
18. 50UNS-D76





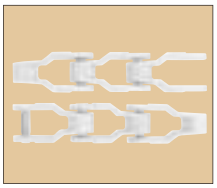
- Material : Standard (Green)
- Width (mm) : 55.5
- Pin material : Stainless steel
- Small sideflexing radius with pusher bar (Tsubaki Original)

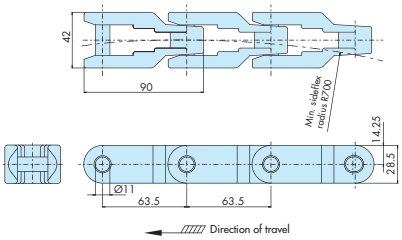
19. 50UN-T95



- Material : Standard (Green)
- Width (mm) : 95.0
- Pin material : Stainless steel
- Small sideflexing radius with crescent plate (Tsubaki Original)

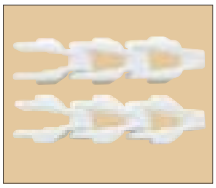
20. TPCC420

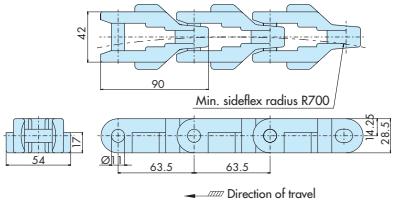




- Material : Standard (White)
- Width (mm) : 42.0
- Pin material : Stainless steel
- For crate conveyor chain (CC600 type)

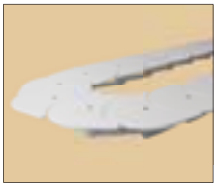
21. TPCC420-T

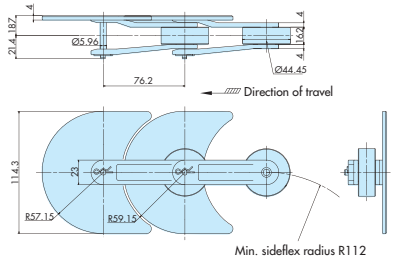




- Material : Standard (White)
- Width (mm) : 54.0
- Pin material : Stainless steel
- For crate conveyor chain (CC600TAB type)

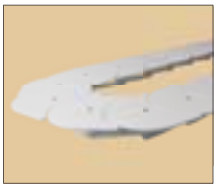
22. TORP < R Roller >

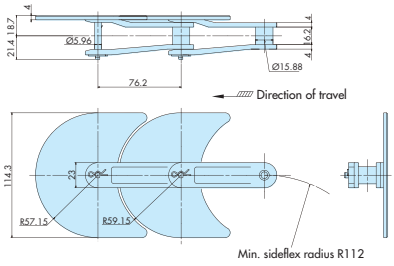




- Material : Standard (White)
- Width (mm) : 114.3
- Pin material : Stainless steel
- Horizontal conveyance (Tsubaki Original)

23. TOSP < S Roller (Bushing Type) >



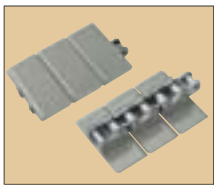


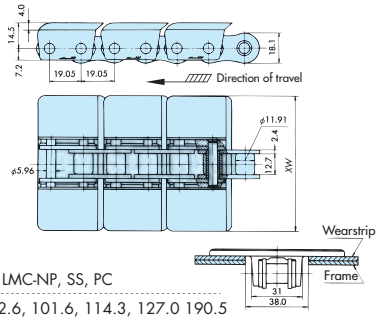
- Material : Standard (White)
- Width (mm) : 114.3
- Pin material : Stainless steel
- Horizontal conveyance (Tsubaki Original)

Snap-on Plastic Plates with Base Roller Chains

1. TN

Straight Running

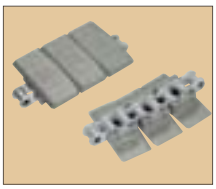


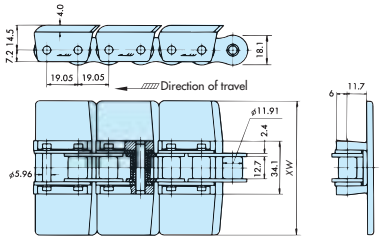


- Base chain type: Standard, NP, LMC-NP, SS, PC
- Plastic plate width XW (mm) : 82.6, 101.6, 114.3, 127.0 190.5
- Plastic plate material : Standard (Gray)
- Steel base chain type (863 type)

2. TNU

Sideflexing

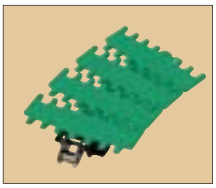


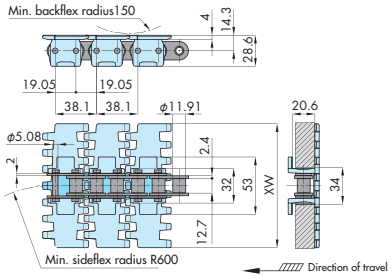


- Base chain type : Standard, NP, AS
- Plastic plate width XW (mm) : 82.6, 114.3, 127.0
- Plastic plate material : Standard (Gray)
- Steel base chain type (Tsubaki Original)

3. PT

Sideflexing

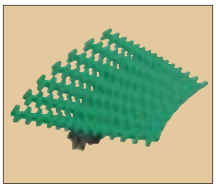


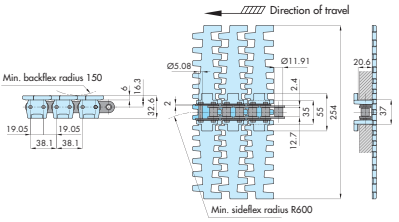


- Base chain type : NP, SS
- Plastic plate width XW (mm) : 82.6, 114.3
- Plastic plate material : LFG
- Float-preventive tab type (Tsubaki Original)

4. PT-S

Sideflexing



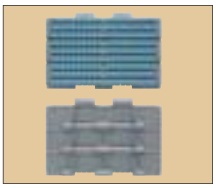


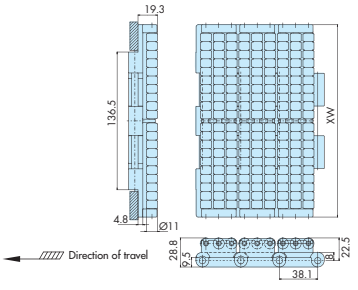
- Base chain type : NP, SS
- Plastic plate width (mm) : 254.0
- Plastic plate material : LFG
- Wide support area with tab (Tsubaki Original)

Chains with Accumulation Rollers

1. TTPDH-LBP

Straight Running

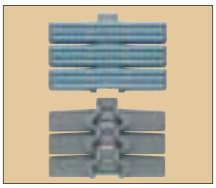


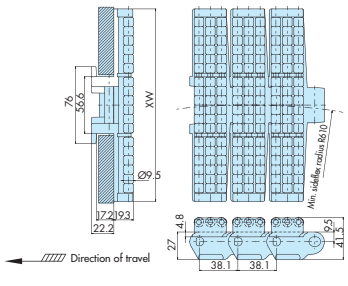


- Plate material : LF (dark gray)
- Width XW (mm) : 190.5, 254.0, 304.8
- Pin material : Stainless steel
- Reduced back-line pressure type (LBP821 type)

2. TPUS-LBP

Sideflexing

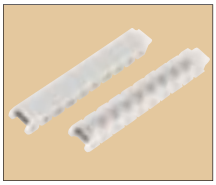


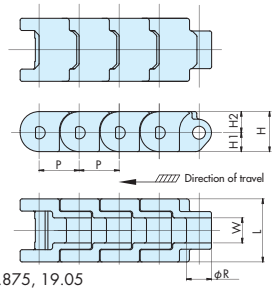


- Plate material : LF (dark gray)
- Width XW (mm) : 95.3, 190.5, 254.0, 304.8
- Pin material : Stainless steel
- Reduced back-line pressure type (LBP882TAB type)

1. RSP

Straight Running



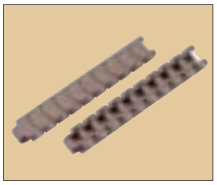


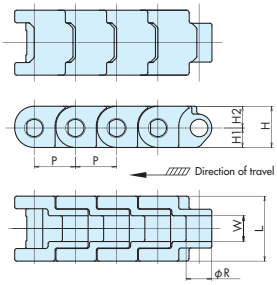
- Chain pitch P (mm) : 9.525, 12.7, 15.875, 19.05
- Material : Standard (White), LFB, LFG, LFW, ULF
- Chain width L (mm) : 13, 20, 22.5, 30
- Pin material : Stainless steel ■ Small pitch (Tsubaki Original)

	P	R	W	L	H_1	H_2	H
RSP35	9.525	5.08	4.78	13	4	5	9
RSP40	12.7	7.92	7.95	20	6	6.7	12.7
RSP50	15.875	10.16	9.53	22.5	7	8	15
RSP60	19.05	11.91	12.7	30	8.5	8.8	17.3

2. RSP-P < Plastic D-Pin Chain >

Straight Running



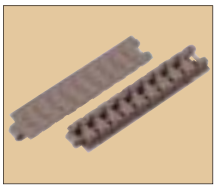


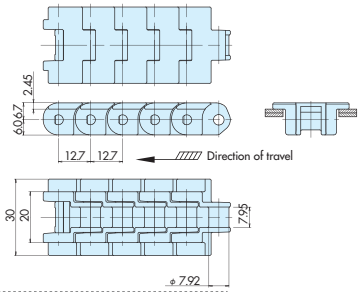
- Chain pitch P (mm) : 12.7, 19.05
- Material : LFB, LFG, LFW
- Chain width L (mm) : 20, 30 ■ Pin material : Plastic
- Small pitch & plastic pin type (Tsubaki Original)

	P	R	W	L	H_1	H_2	H
RSP40P	12.7	7.92	7.95	20	6	6.7	12.7
RSP60P	19.05	11.91	12.7	30	8.5	8.8	17.3

3. RSP-SL

Straight Running

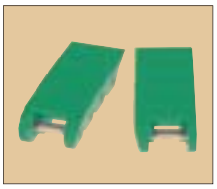


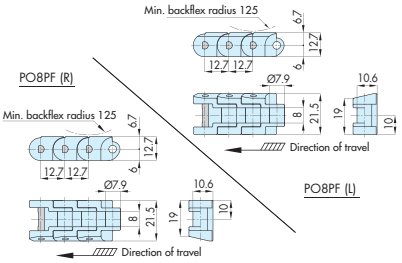


- Chain pitch (mm) : 12.7
- Material : Standard (White), LFB, LFG, LFW, ULF
- Chain width (mm) : 30 ■ Pin material : Stainless steel
- Small pitch with plate (Tsubaki Original)

4. PO8PF

Straight Running

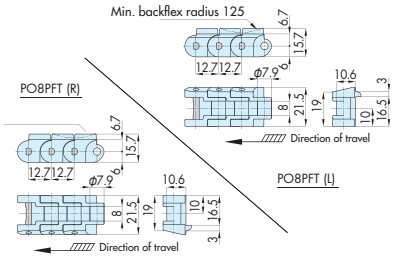




- Chain pitch (mm) : 12.7
- Material : UL
- Chain width (mm) : 21.5
- Pin material : Stainless steel ■ Small pitch (Tsubaki Original)

5. PO8PFT

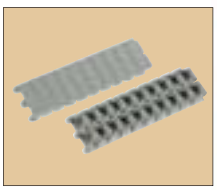
Straight Running

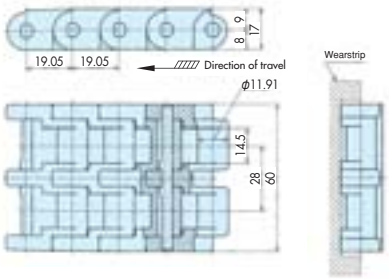


- Chain pitch (mm) : 12.7
- Material : UL
- Chain width (mm) : 21.5
- Pin material : Stainless steel ■ Small pitch (Tsubaki Original)

6. RSP-2

Straight Running

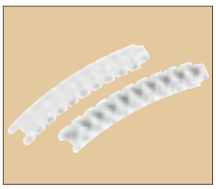


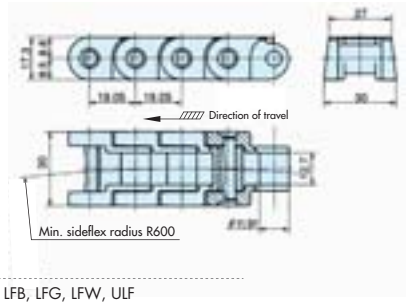


- Chain pitch (mm) : 19.05
- Material : Standard (Gray), LFB, LFG, LFW
- Chain width (mm) : 20, 30 ■ Pin material : plastic
- Wide product support area (Tsubaki Original)

7. RSP-CU

Sideflexing

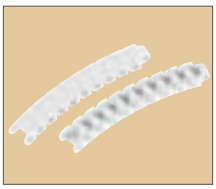


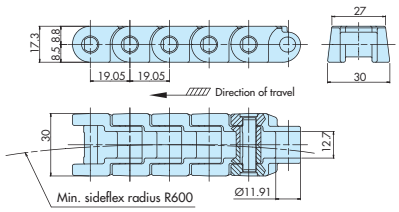


- Chain pitch (mm) : 19.05
- Material : Standard (White), LFB, LFG, LFW, ULF
- Chain width (mm) : 30
- Pin material : Stainless steel
- Small pitch (Tsubaki Original)

8. RSP-P-CU < Plastic D-Pin Chain >

Sideflexing

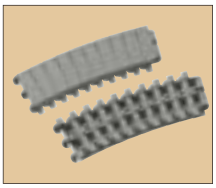


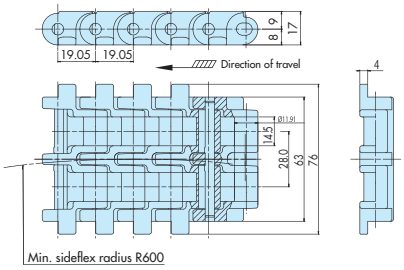


- Chain pitch (mm) : 19.05
- Material : LFB, LFG, LFW
- Chain width (mm) : 30
- Pin material : Plastic
- Small pitch & plastic pin type (Tsubaki Original)

9. RSP-CU-2

Sideflexing



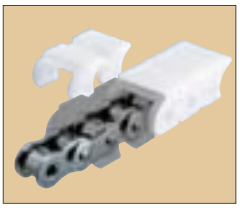


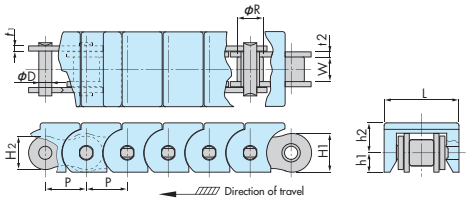
- Chain pitch (mm) : 19.05
- Material : Standard (Gray), LFB, LFG, LFW, ULF
- Chain width (mm) : 76.0
- Pin material : Stainless steel
- Wide product support area (Tsubaki Original)

Plastic Block Chains with Base Roller Chains

1. Snap Cover Chain

Straight Running

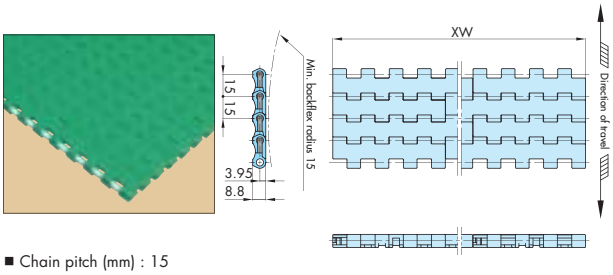




- Chain pitch P (mm) : 9.525, 12.7, 15.875, 19.05, 25.4, 31.75
- Base chain type : Standard, NP, Lambda, SS
- Chain width (mm) : 17.5, 23.5, 29.0, 35.0, 42.5, 49.5
- Plastic cover material : Standard (White)
- Steel base chain type (Tsubaki Original)

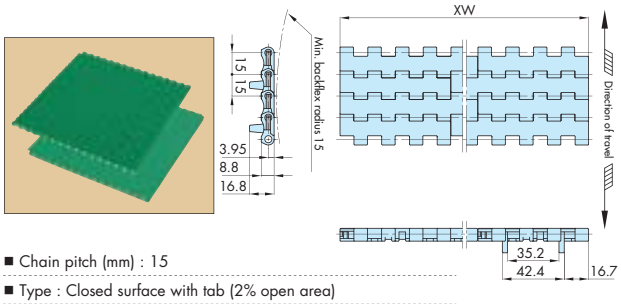
	P	R	W	D	t_1	t_2	H_1	H_2	h_1	h_2	L
RF06B-SC	9.525	6.35	5.72	3.28	1.0	1.27	8.2	8.2	4.2	7.6	17.5
RS40-SC	12.70	7.92	7.95	3.97	1.5	1.5	12.0	10.4	6.2	9.3	23.5
RS50-SC	15.875	10.16	9.53	5.09	2.0	2.0	15.0	13.0	7.7	11.8	29.0
RS60-SC	19.05	11.91	12.70	5.96	2.4	2.4	18.1	15.6	8.5	13.7	35.0
RS80-SC	25.40	15.88	15.88	7.94	3.2	3.2	24.1	20.8	11.5	18.0	42.5
RS100-SC	31.75	19.05	19.05	9.54	4.0	4.0	30.1	26.0	14.7	21.3	49.5

1. WT1505K < Plastic Pin Chain >



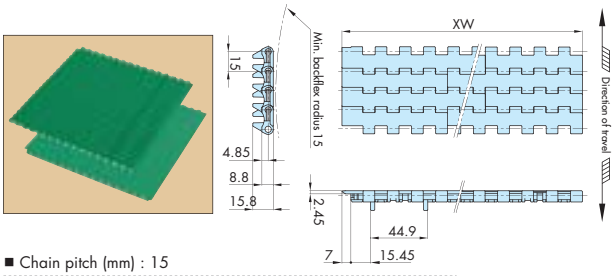
- Chain pitch (mm) : 15
- Type : Closed surface (2% open area)
- Material : UL, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

2. WT1505GK < Plastic Pin Chain >



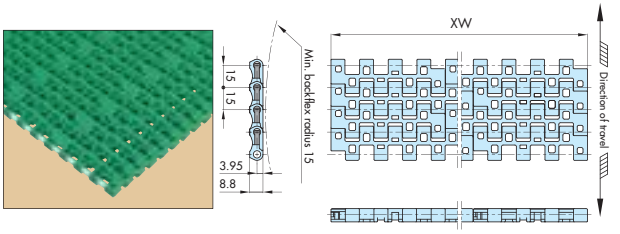
- Chain pitch (mm) : 15
- Type : Closed surface with tab (2% open area)
- Material : UL, ULF
- Width XW (mm) : 152.4–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

3. WT1505GTOK < Plastic Pin Chain >



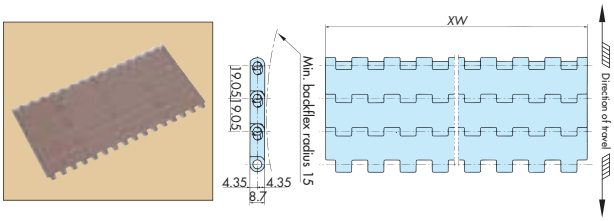
- Chain pitch (mm) : 15
- Type : Closed surface with tab and transfer plate (2% open area)
- Material : UL, ULF
- Width XW (mm) : 235.6–1,531 (Consult a Tsubaki representative for widths over 1,531 mm)

4. WT1506K < Plastic Pin Chain >



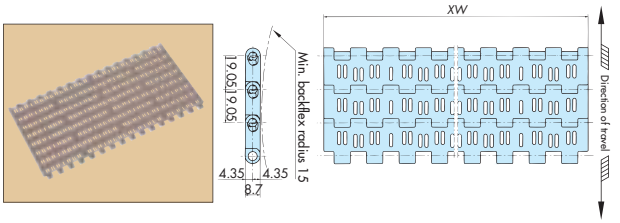
- Chain pitch (mm) : 15
- Type : Opened surface (26% open area)
- Material : UL, ULF
- Width XW (mm) : 76.2–1 524 (Consult a Tsubaki representative for widths over 1,524 mm)

5. BTC6 < Plastic Pin Chain>



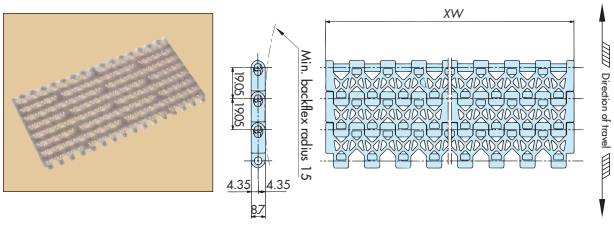
- Chain pitch (mm) : 19.05
- Type : Closed surface (3% open area)
- Material : LFB, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

6. BTO6 < Plastic Pin Chain >



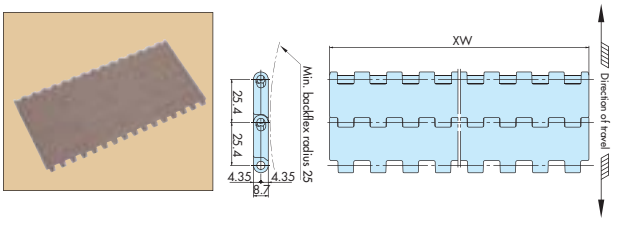
- Chain pitch (mm) : 19.05
- Type : Opened surface (17% open area)
- Material : LFB, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

7. BTN6 < Plastic Pin Chain >



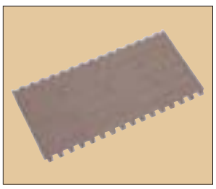
- Chain pitch (mm) : 19.05
- Type : Opened surface (53% open area)
- Material : LFB, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

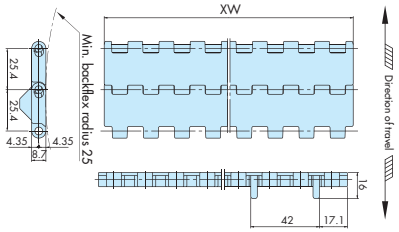
8. BTC8 < Plastic Pin Chain >



- Chain pitch (mm) : 25.4
- Type : Closed surface (2.5% open area)
- Material : LFB, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

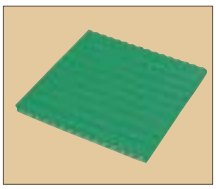
9. BTC8-A < Plastic Pin Chain >

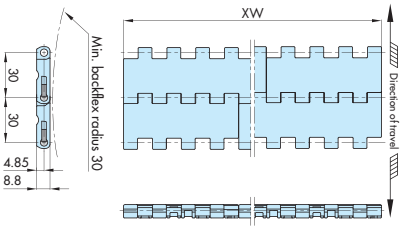




- Chain pitch (mm) : 25.4
- Type : Closed surface with tab (2.5% open area)
- Material : LFB, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

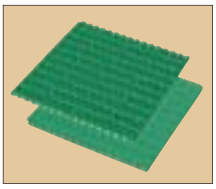
10. WT3005K < Plastic Pin Chain >

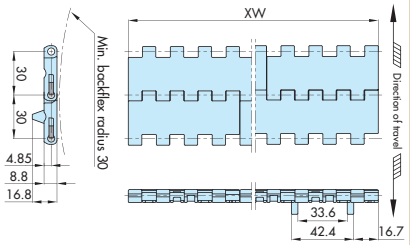




- Chain pitch (mm) : 30
- Type : Closed surface (4% open area)
- Material : UL, ULF
- Width XW (mm) : 76.2–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

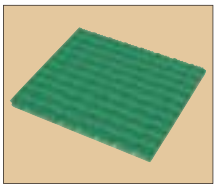
11. WT3005GK < Plastic Pin Chain >

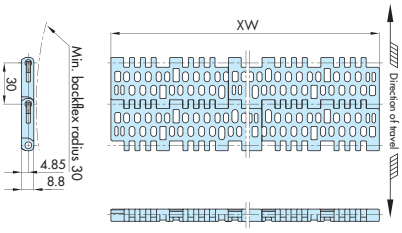




- Chain pitch (mm) : 30
- Type : Closed surface with tab (4% open area)
- Material : UL, ULF
- Width XW (mm) : 152.4–1,524 (Consult a Tsubaki representative for widths over 1,524 mm)

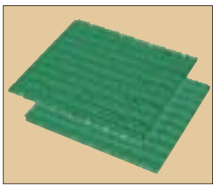
12. WT3086K < Plastic Pin Chain >

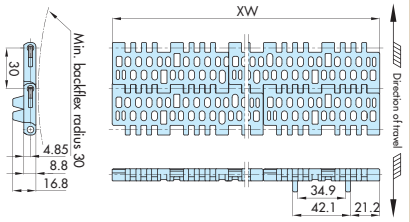




- Chain pitch (mm) : 30
- Type : Opened surface (27% open area)
- Material : UL, ULF
- Width XW (mm) : 170–1,530 (Consult a Tsubaki representative for widths over 1,530 mm)

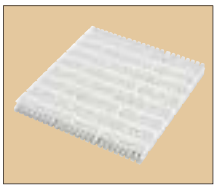
13. WT3086GK < Plastic Pin Chain >

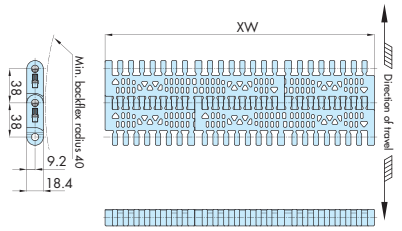




- Chain pitch (mm) : 30
- Type : Opened surface with tab (27% open area)
- Material : UL, ULF
- Width XW (mm) : 170–1,530 (Consult a Tsubaki representative for widths over 1,530 mm)

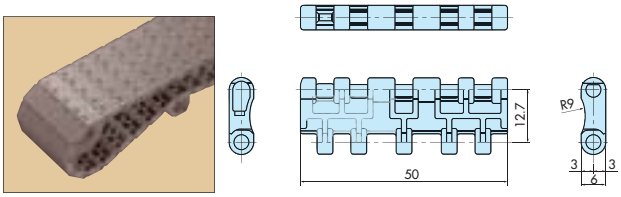
14. WT3816 < Plastic Pin Chain >





- Chain pitch (mm) : 38
- Type : Opened surface (28% open area)
- Material : HTW (polypropylene)
- Width XW (mm) : 200–3,500 (Consult a Tsubaki representative for widths over 3,500 mm)

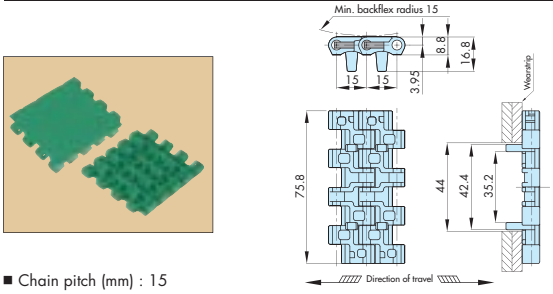
15. BTC4-M < Plastic Pin Chain >



Min. backflex radius 10

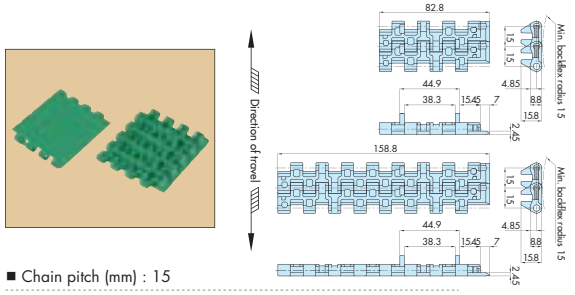
- Chain pitch (mm) : 12.7
- Type : Closed surface
- Material : Standard (Gray), LFB, LFG, LFW, ULF
- Chain width (mm) : 50

16. WT1505GM < Plastic Pin Chain >



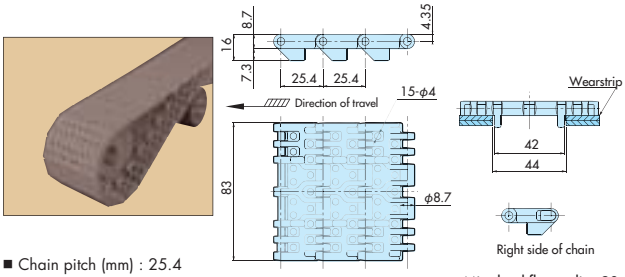
- Chain pitch (mm) : 15
- Type : Closed surface with tab (2% open area)
- Material : UL, ULF
- Chain width (mm) : 75.8

17. WT1505GTOM < Plastic Pin Chain >



- Chain pitch (mm) : 15
- Type : Closed surface with tab and transfer plate (2% open area)
- Material : UL, ULF
- Chain width (mm) : 82.8, 158.8

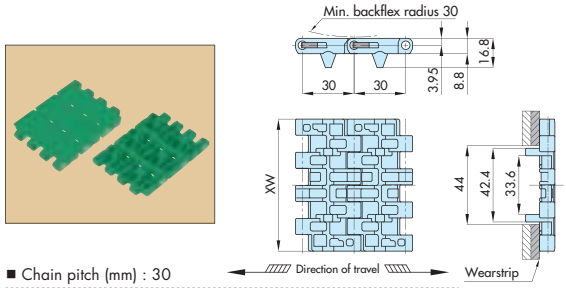
18. BTO8-M < Plastic Pin Chain >



Min. backflex radius 20

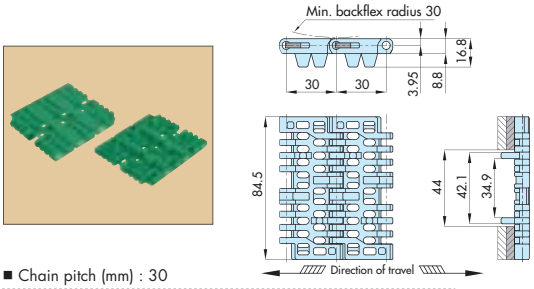
- Chain pitch (mm) : 25.4
- Type : Open surface with tab (12% open area)
- Material : Standard (Gray), LFB, LFG, LFW, ULF
- Chain width (mm) : 83.0

19. WT3005GM < Plastic Pin Chain>



- Chain pitch (mm) : 30
- Type : Closed surface with tab (4% open area)
- Material : UL, ULF
- Chain width XW (mm) : 75.8, 113.8

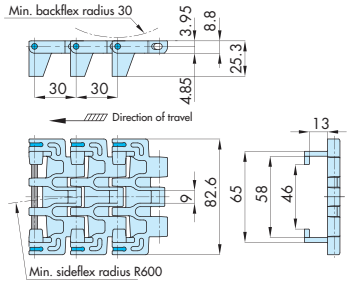
20. WT3086GM < Plastic Pin Chain >



- Chain pitch (mm) : 30
- Type : Open surface with tab (27% open area)
- Material : UL, ULF
- Chain width (mm) : 84.5

21. WT3085C

Sideflexing



- Chain pitch (mm) : 30
- Type : Closed surface with tab
- Material : UL
- Chain width (mm) : 82.6 ■ Pin material : Stainless steel

Plastic Chain can be selected in accordance with your requirements and application from among a variety of plastic materials other than a standard-grade polyacetal resin.

LF Low Friction/Wear Resistant Series

1. Protects Conveyed Items
Coefficient of friction is 15% to 45% lower than Standard Series, resulting in reduced line pressure during accumulation and minimizing potential scratching or other damage to conveyed items.

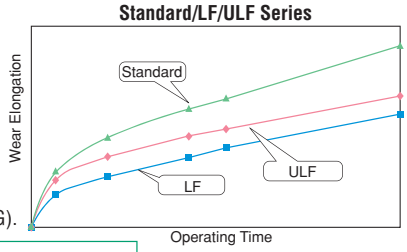
2. Long Service Life (compared to Standard Series)
Chain life is 1.2 to 2 times longer than Standard Series because of lower chain load.

3. Smooth Transfer and Accumulation of Conveyed Items

4. Reduced Drive Power Requirements

5. Diverse Color Options Available colors include white (LFW), brown (LFB) and green (LFG).

Wear Elongation Performance of Standard/LF/ULF Series



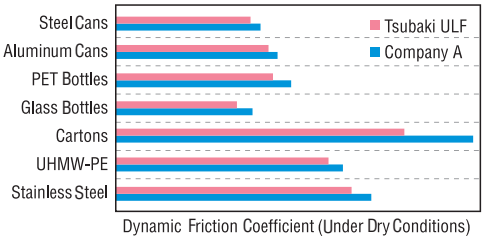
Applications
- General-purpose series that can be used in a wide range of applications
- Conveyors under harsh conditions (high speeds, high loads) where chain elongation would be accelerated and the use of Standard Series would result in shortened chain replacement cycles
- Conveyors in high line-pressure situations where conveyed goods might be damaged

ULF Ultra Low Friction Series

1. Protects Conveyed Items
A special polyacetal material incorporating a silicone-based lubricant significantly lowers the coefficient of friction by 15% to 30% compared to that of LF Series (under dry conditions). Line pressure is reduced during accumulation, minimizing potential scratching or other damage to conveyed items.

2. Smooth Transfer and Accumulation of Conveyed Items

3. Reduced Drive Power Requirements



Applications
- Conveyors of PET bottles and paper packs
- Accumulation areas in front of inspection equipment and packaging units such as casers
- Ideal for combiners to reduce line pressure
- Ideal when wanting to reduce or eliminate lubricants (soapy water, etc.)
- Ideal when wanting to improve slip performance over LF Series

Your problem
- Damage by hot water and high temperature
- Damage by sterilization
- Wear from high-speed conveyance

Our solution Heat Resistant/ High Speed Series (KV Series)

Your problem
- High disposal cost for used chains
- High running cost
- Short wear life

Our solution Plastic Pins

Your problem
- Corrosion in acid and alkaline environment

Our solution Chemical Resistant Series (SY/Y/CR Series)

Your problem
- Bacteria and mold in humid areas
- Short wear life

Our solution Anti-Bacterial/ Anti-Mold Series (MWS Series)

Your problem
- Product contamination
- Pieces of broken chain

Our solution Impact Resistant Series (DIA/DIY Series)

Rexnord® Metal TableTop® chain programm

Choosing Rexnord® Metal TableTop® chains results in optimized performance and lowering conveyor maintenance cost

60-Serie
High quality 60-series Stainless Steel TableTop® chain

60-Serie - HB
High quality 60-series Stainless Steel TableTop® chain with Hardened Pins with improved wear resistance properties.

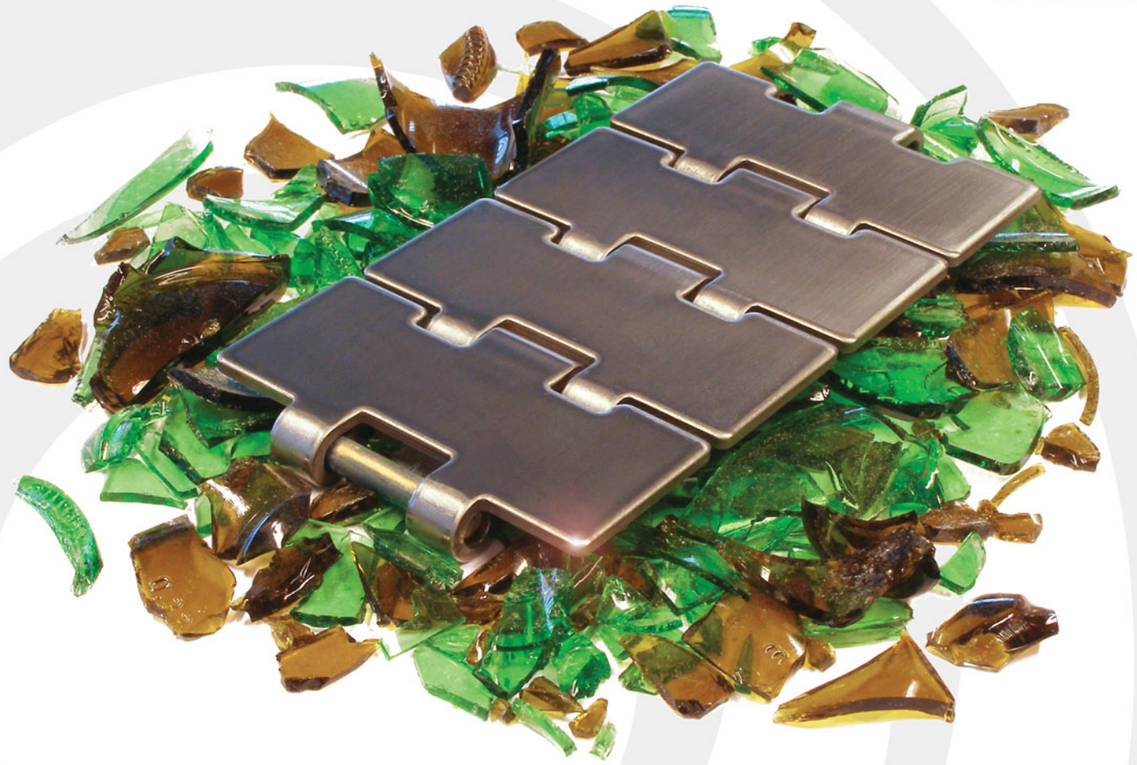
66-Serie - XHB
Special 66-series Stainless Steel TableTop® with special hardened pins to offer superior wear resistance properties.

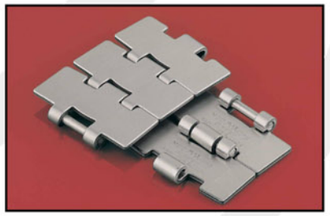
Chain Type	Code Nr.	Plate Width		Weight	Through Hardened Pins	Surface Flatness (max.)	Polished Hinge Eyes	Working Load (max.)
		mm	Inch	Kg/m		mm		N
60-SERIES								
60S31XM	762.69.31	82.5	3.25	2.50	No	0.08	Yes	6000
60S84XM	762.69.84	83.8	3.30	2.52				
60M31XM	767.69.31	82.5	3.25	2.50				
60M84XM	767.69.84	83.8	3.30	2.52				
60-SERIES-HB								
60S31XM-HB	762.69.15	82.5	3.25	2.50	Yes	0.08	Yes	6000
60S84XM-HB	762.69.14	83.8	3.30	2.52				
60M31XM-HB	767.69.15	82.5	3.25	2.50				
60M84XM-HB	767.69.14	83.8	3.30	2.52				
66-SERIES-XHB								
60S31XM-XHB	762.09.31	82.5	3.25	2.50	Yes	0.08	Yes	6000
60S84XM-XHB	762.09.84	83.8	3.30	2.52				
60M31XM-XHB	767.09.31	82.5	3.25	2.50				
60M84XM-XHB	767.09.84	83.84.0	3.30	2.52				

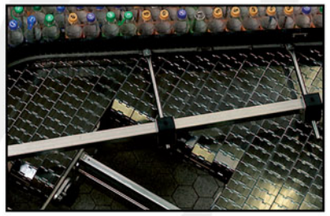
Rexnord® Stainless Steel TableTop® Chains

Wear resistant stainless steel chains with superior corrosion resistance

60-Series
60-Series HB
66-Series XHB







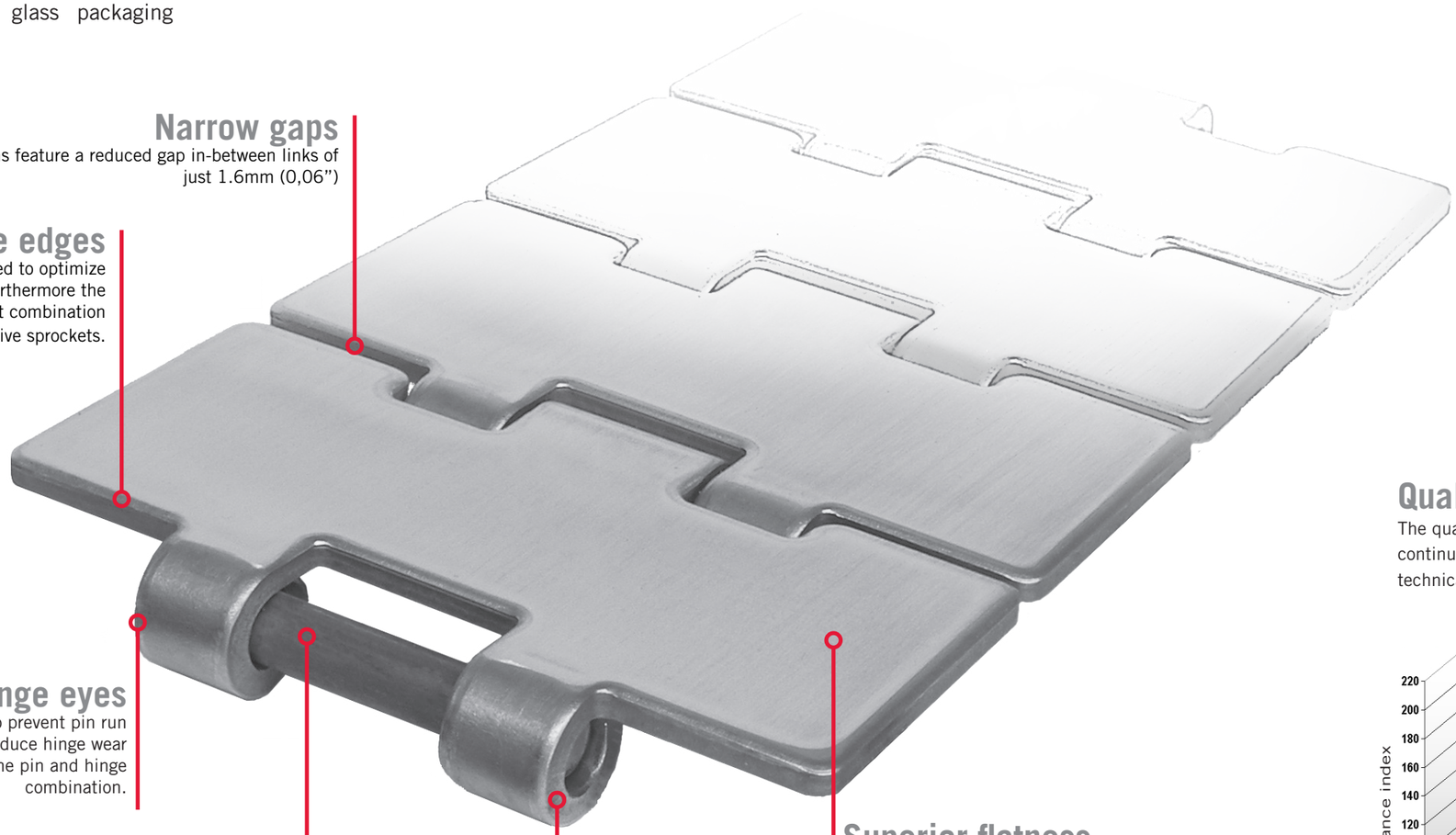
FLATTOP EUROPE

REXNORD
PRECISION. POWER. PERFORMANCE.

Rexnord® Stainless Steel TableTop® Chains

Improved wear resistance, superior corrosion resistance and reduced maintenance

Optimize the reliability and performance of bottling conveyors with the superior quality of Rexnord® Metal TableTop® chains. Conveying in glass bottling shows increased capacity. Furthermore glass packaging shows development in glass wall thickness, special bottle shapes and modern labelling and printing technology.



Narrow gaps
Maxline chains feature a reduced gap in-between links of just 1.6mm (0,06")

Fully chamfered plate edges
Chain links are completely chamfered to optimize product handling & transfers. Furthermore the chamfered links feature the best contact combination with the drive sprockets.

Hinge eyes
Perfectly calibrated round hinge eyes to prevent pin run out. Furthermore the calibrated hinges reduce hinge wear due to the optimised contact surface of the pin and hinge combination.

Hardened Pins
Hardened pin material reduces the chain elongation significantly. Patented special hardened pins will give the highest resistance to chain elongation over a long period of time.

Polished hinges
To improve performance the hinge eyes are polished to ensure smooth contact with plastic wearstrips and Magnetflex™ corner tracks.

Superior flatness
Rexnord®'s extreme flatness quality of 0,08 mm(0,003") results from superior chain design and tight production control at 10 measurement points per chainlink.

With precise measurements to tight tolerances in the width direction and an exclusive convex top design, Rexnord® achieves exceptional lateral flatness for smooth sideways sliding from one chain to the next.

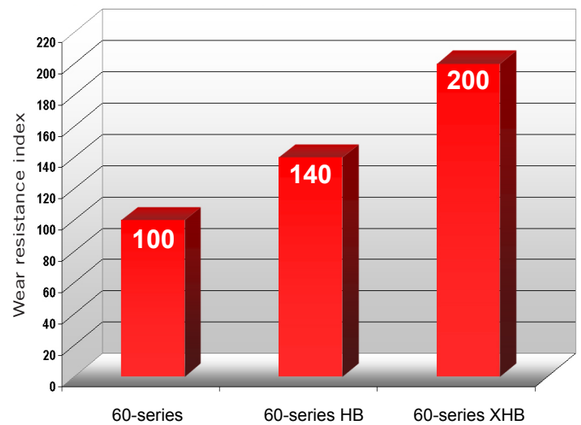
Rexnord®'s extreme flatness in the running direction produces smooth product movement from one chain link to the next, enhancing product stability and reducing product tippage.

60-HB and 66-XHB with special hardened pins

Rexnord® is setting the new standard in Metal TableTop® chains. Main specification for these chains are: superior wear resistance that result in conveyor maintenance reduction. The 60-series HB and 66-series XHB are suitable for the most demanding high-speed bottling conveyor applications, like pressure less combiners, in / outfeed of filler and labeller area, and in and outfeed of bottle Pasteurizer . In the dry end crate conveyors for Returnable Glass bottles, improved maintenance efficiency can be achieved. In comparison with the standard Stainless steel chain, the 60–series HB and 66–series XHB will offer a significantly improved durability resulting in reduced maintenance cost.

Quality control
The quality of Rexnord® Metal TableTop® chains is checked continuously on more then 24 critical quality points, in our technical laboratory.

Patented technology



66-XHB features a patented combination of plate & specially hardened pin material, which offers superior resistance to elongation in combination with highest corrosion resistance.

70 years of Innovation in Conveying Technology

66-SERIES XHB

1938	1967	1980	1992	1998	2004	2009
Rexnord® Invents TableTop® (SS815)	TableTop® sideflexing (881 bevel)	Magnetflex sideflexing (10M31)	MCC 60 series	60-HB series	Rexnord® 66-series	

uni-chains
Belt Catalogue

Patents

uni-chains A/S manufactures products under one or more of the following U.S. Patents: 4.754.872, 5.000.312, 5.027.944, 5.127.515, 5.305.869, 5.307.923, 5.379.883, 5.482.156, 5.697.492, 6.073.756, 6.216.854, 6.332.531, 6.390.288, 29/039.113, 29/039.114.
Other U.S. and foreign utility and design patents pending.
European patents and other patents in Europe:
0480863, 0.652.169, 159544, 152689, 169602, 0439/96, MR09251995, MR09261995, M960477.4, 145290, 170664, 94610049.2, GB2309062, 0680898, G9316589.7, DE431286402.
With reservations of printer's error.

DANAK Reg.nr. 5001
Certified firm according to DS/EN ISO 9001 by Det Norske Veritas, Danmark A/S

The quality assurance system of uni-chains A/S is certified according to ISO 9001.

Probably the most comprehensive belt programme in the industry

In this catalogue you will find a wide range of quality products: Innovative belt systems patented by uni-chains for all kinds of applications, e.g. food processing, packaging, canning, bottling etc.
We use both industry standard and special materials with e.g. chemical resistance, antistatic, flame retardant characteristics etc., uni-chains uses F.D.A. approved materials and offer U.S.D.A. Accepted products for food contact.

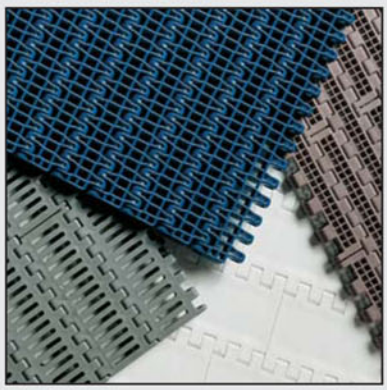
Competitive prices and quick delivery

We offer quality products at competitive prices. Furthermore, a quick response to your inquiries and on time delivery of your orders can be essential success criteria to get and keep your business.
Our technical experts and employees will always do their utmost to meet your requirements and expectations.

More than just belts

If you need other conveyor components than belts and sprockets, we also offer one of the widest ranges of conveyor chains, and a comprehensive accessories programme.
To learn more about this, please contact us, and we will send you our special chain or accessories catalogues, or send a sales representative to call on you for a discussion of your specific requirements.

Thank you for reading this belt catalogue. We hope that it will be useful to you and that we can meet your request for standard and special or custom made products.



Contents

Ordering Belt Systems

Material Properties

Belt Specifications - Straight running

uni M-SNB M2 and M3 *Pitch 12.7 mm (0.50 inch)* — Food - Beverage - Packaging

uni M-QNB *Pitch 12.7 mm (0.50 inch)* — Beverage - Packaging

uni Light *Pitch 19.1 mm (0.75 inch)* — Food - Beverage - Packaging

Contents

Contents

Contents

Ordering Belt Systems

Reference no. for belt systems

D - PP - uni MPB - C - 335 - W

Belt colour *

Belt width in mm

Surface opening

Belt type:
uni M-SNB M2 and M3,
uni M-QNB, uni Light,
uni SNB M1, uni SNB-M2,
uni QNB, uni CNB,
uni Light EP, uni SSB,
uni L-SNB, uni OPB 8M,
uni OPB 8, uni OPB 4V,
uni OPB 4, uni OPB 8P,
uni MPB, uni Flex SNB
and uni Flex Belt

Pin material:
SS = AISI 304 Stainless Steel
PP = Polypropylene
PE = Polyethylene
PA6.6 = Polyamide 6.6
GR = Glass Reinforced Polyester

Belt material:

Regarding standard belt and pin materials of the individual belt systems, please refer to the belt specifications pages for the individual belt types.

uni M-SNB M2 and M3: See page 13

uni M-QNB: See page 16

uni Light: See page 19

uni SNB M1: See page 26

uni SNB M2: See page 30

uni QNB: See page 33

uni CNB: See page 36

uni Light EP: See page 40

uni SSB: See page 46

uni L-SNB: See page 50

uni OPB: See page 54

uni MPB: See page 61

uni Flex SNB: See page 67

uni Flex Belt: See page 74

*** Standard and alternative belt colours:**

- B = Blue
- BR = Brown
- D = Red
- DG = Dark grey
- E = Green
- G = Grey
- K = Black
- N = Natural
- O = Orange
- P = Purple
- T = Tan (Beige)
- W = White
- Y = Yellow

Material Properties

Polyoxymethylen - POM

Colour options: 
Other custom-made colours are optional on request.

POM is a thermoplastic material with very good mechanical and thermal properties. The material is also characterised by high strength, elasticity and dimensional stability. POM is resistant to a limited selection of chemicals. POM has low coefficient of friction and good resistance to wear.

POM - D
POM polymers with self-lubricating components.

POM - I
POM polymers with self-lubricating components and improved impact resistance.

POM - LF
POM polymers with improved self-lubricating components.

POM - SLF
POM polymers with self-lubricating additives to obtain the lowest possible friction resistance.

Polypropylene - PP

Colour options: 
Other custom-made colours are optional on request.

Polypropylene is a thermoplastic material with very good chemical resistance properties. PP is an economical material for applications with high temperatures.

PP - I
PP with improved impact resistance.

Polyethylene - PE

Colour options: 
Other custom-made colours are optional on request.

PE is an economical material for applications with low temperatures.

PE - I
PE with improved impact resistance.

Recommended Temperature Range

	°C	°F
POM (D, I, LF, SLF)	-40 to +90°C	-40 to +194°F
PP & PP-I	+1 to +104°C	+34 to +219°F
PE & PE-I	-50 to + 80°C	-58 to +176°F

Standard Grades

Standard pin material

Polypropylene - PP
Polyethylene - PE
Stainless steel
Polyamid PA6.6
Glass Reinforced Polyester - GR

Please note: Regarding standard materials and colours of the individual belt systems, please refer to the "standard materials" boxes under the product photos for each belt type throughout this catalogue.

Material Properties

Glass Reinforced Polyester - GR

Colour options:

Glass reinforced polyester is a material with an extremely high resistance to wear and heat.

Note: For use in hot water: Max. temperature +60°C (+140°F). For belts operating at high temperatures please note that heavy loads will cause longer permanent elongation.

The dimensions of belts made in GR material can be approx 1.5% larger than POM belts.

Antistatic Material - AS

Colour options:

Electrically conductive POM is used where static electricity buildup must be avoided e.g. in the aerosol and electronics industries. AS is black because of the carbon contents. It has low impact resistance and approx. half the tensile strength of POM.

Flame Retardant Polyamide - FR

Colour options:

Flame retardant polyamide is a fire restricting material used in surroundings with danger of igniting the belts.

Polyvinylidenfluoride - PVDF

Colour options:

Polyvinylidenfluoride is characterised by a very high chemical resistance. PVDF also has high wear resistance and good friction properties.

Polyamide - PA6

Colour options:

Other custom-made colours are optional on request.

Polyamide PA6 is a thermoplastic material. The combination of its mechanical properties and chemical resistance makes this material suitable for many situations. This material is used for our nylon sprockets.

Polyamide - PA6.6

Colour options:

Other custom-made colours are optional on request.

Polyamide PA6.6 is a thermoplastic material with many fine properties. The material has a high resistance to wear and high strength and great stiffness. Polyamide has an extremely wide temperature range.
The material features very high impact resistance and toughness.

	Temperature range	
	°C	°F
Glass Reinforced Polyester - GR	-40 to +125°C	-40 to +257°F
Antistatic material - AS	-40 to +90°C	-40 to +194°F
Flame Retardant Polyamide - FR	+1 to +104°C	+34 to +219°F
Polyvinylidenfluoride - PVDF	-40 to +100°C	-40 to +212°F
Polyamide - PA6	-40 to +120°C	-40 to +248°F
Polyamide - PA6.6	-40 to +140°C	-40 to +284°F

Special Grades

uni-chains also manufactures plastic belts in Special Grade materials in order to meet customer requirements in applications where the standard materials would be inadequate.

The following Special Grade materials are offered:

Glass reinforced polyester - GR

Antistatic Material - AS

Flame Retardant
Polyamide - FR

Polyvinylidenfluoride - PVDF

Polyamide - PA6

Polyamide - PA6.6

For belts operating at high temperatures please note that heavy loads will cause longer permanent elongation.

Material Properties

Approval of Materials

F.D.A. (US Food and Drug Administration)
US Federal Agency that approves materials for use with food contact.

Approval of Products and Equipment

U.S.D.A. (US Department of Agriculture)
U.S.D.A. evaluates and accepts products and equipment for use in the dairy industry and in meat and poultry plants. The uni-chains belting products listed on this page are listed in the U.S.D.A.'s Accepted Meat and Poultry Equipment book as accepted for food contact and packaged goods respectively. In addition, U.S.D.A inspectors accept belt styles on an individual plant basis.

U.S.D.A. Dairy Grading Branch has issued Equipment Acceptance Certificates for the belt types listed on this page under U.S.D.A. Dairy Accepted.

For uni-chains U.S.D.A. accepted chains please refer to the uni-chains Conveyor Chains Catalogue.

uni OPB C

Approvals

F.D.A.
uni-chains uses F.D.A. approved materials of the following types:
POM-D, POM-I
PP, PP-I
PE, PE-I
PA6.6
PUR rubber for inserts

U.S.D.A. Accepted Meat and Poultry Equipment (Food Contact):
uni SNB series,
uni OPB:
uni OPB 4C, uni OPB 4V C,
uni OPB 4V 23%,
uni OPB 4V 36%,
uni OPB 8C and
uni OPB 8 25%

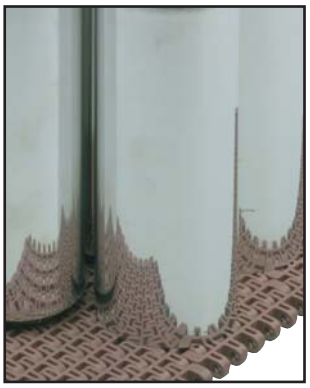
U.S.D.A. Accepted Meat and Poultry Equipment (Packaged Product only):
All the above plus
uni Light

U.S.D.A. Dairy Accepted :
uni MPB, uni MPB-G,
uni MPB-GE, uni MPB-N,
uni MPB-NE, uni MPB 18%,
uni MPB 20%, uni MPB 22%,
uni CNB C, uni CNB 18%,
uni CNB 22%

Belt Specifications

uni M-SNB has a pitch of only 12.7 mm (0.50 inch). Combined with the special relieved underside a perfect fit onto nose bars and transfer rollers is possible ensuring a continuous and stable product flow which eliminates can tippage. uni M-SNB is suitable for accumulation systems with back-line pressure. The open surface structure facilitates cleaning and enables drainage and airflow through the belt. uni M-SNB has great strength and resistance to wear.

uni M-SNB M2: Suitable for long conveyors with full cans and bottles.
Designed for heavy-duty applications. This belt has solid edges to withstand side wear.
Special low contact area belt surface.



uni M-SNB M3: Suitable for upside-down can transport applications, PET bottles, and items with fragile surfaces. It has heavy duty edges to withstand wear. This belt is available with prepolished surface for raw-edge can applications.

uni M-SNB

Pitch: 12.7 mm (0.50 inch)

Straight running

Backflex radius: 20 mm (0.8 inch)

Locking type for uni M-SNB M2 and uni M-SNB M3:
Endlock system

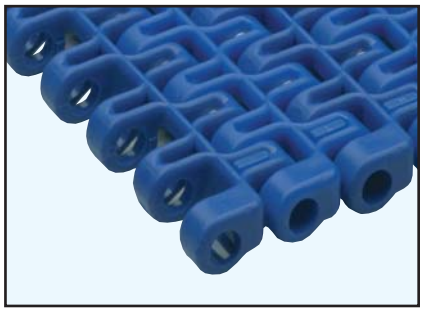
Surface opening: 14%

Patents:
U.S.: 5.379.883
EU: 0.652.169

Industries and applications

Bakeries
Breweries
Canning
Can Manufacturing
Fish
Millboard
Packaging
Poultry

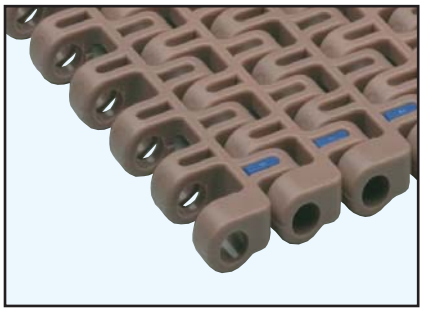
Belt Specifications



uni M-SNB M2

Standard materials:

POM-D | PP | PE



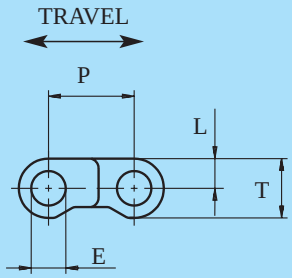
uni M-SNB M3

Standard materials:

POM-D | POM-LF | PP

Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS, PP or PE



	mm	inch
E	5.1	0.20
L	4.4	0.17
P	12.7	0.50
T	8.8	0.35

Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	836	32.9	1598	62.9	2358	92.8
152	6.0	914	36.0	1674	65.9	2434	95.8
228	9.0	990	39.0	1750	68.9	2510	98.8
304	12.0	1066	42.0	1826	71.9	2586	101.8
379	14.9	1142	45.0	1902	74.9	2662	104.8
456	18.0	1218	48.0	1978	77.9	2738	107.8
531	20.9	1294	50.9	2054	80.9	2814	110.8
608	23.9	1370	53.9	2130	83.9	2890	113.8
685	27.0	1446	56.9	2206	86.9	2966	116.8
760	29.9	1522	59.9	2282	89.8	3042	119.8

Belt widths for uni M-SNB in POM, PP and PE.
Please note that the values in the table are max. values.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table.
Belts wider than mentioned in the table can be assembled.

Permissible Tensile Strength

	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni M-SNB	15000	1028	7500	514	4500	308

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS pins, PE and PP pins.

Belt Weights

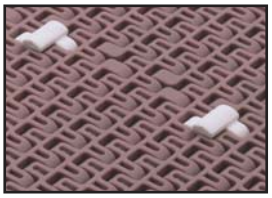
Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni M-SNB	6.3	1.29	8.6	1.76	4.1	0.84	5.6	1.15	4.4	0.89	5.9	1.21

Standard Sprockets M2 and M3

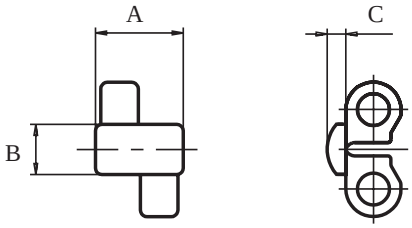
No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
10	41.8	1.65	41.5	1.63	28.0	1.10	ø 10.0	ø 0.39	2233MSNB210N
19	78.5	3.09	79.0	3.11	64.0	2.52	ø 19.1	ø 0.75	2233MSNB219N
							sq 25.4	sq 1.00	2233MSNB219N10SQ
							sq 38.1	sq 1.50	2233MSNB219N15SQ
							sq 40.0	sq 1.57	2233MSNB219N40SQ
28	115.4	4.54	116.2	4.57	65.0	2.56	ø 19.1	ø 0.75	2233MSNB228N
							sq 25.4	sq 1.00	2233MSNB228N10SQ
							sq 38.1	sq 1.50	2233MSNB228N15SQ
							sq 40.0	sq 1.57	2233MSNB228N40SQ
					100.0	3.94	ø 19.1	ø 0.75	2233MSNB228NBB
							sq 50.8	sq 2.00	2233MSNB228N20SQBB
							sq 63.5	sq 2.50	2233MSNB228N25SQBB
							sq 60.0	sq 2.36	2233MSNB228N60SQBB
38	156.4	6.16	157.4	6.20	75.0	2.95	ø 19.1	ø 0.75	2233MSNB238N
							sq 25.4	sq 1.00	2233MSNB238N10SQ
							sq 38.1	sq 1.50	2233MSNB238N15SQ
							sq 40.0	sq 1.57	2233MSNB238N40SQ
					100.0	3.94	ø 19.1	ø 0.75	2233MSNB238NBB
							sq 50.8	sq 2.00	2233MSNB238N20SQBB
							sq 63.5	sq 2.50	2233MSNB238N25SQBB
							sq 50.0	sq 1.97	2233MSNB238N50SQBB
							sq 60.0	sq 2.36	2233MSNB238N60SQBB

sq = Square bore.
Standard material: Polyamide.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.
Width of sprockets: 20 mm (0.8 inch).
Tooth width: 7 mm (0.3 inch).

Rubber Inserts



Standard material: Santoprene



Rubber inserts can be assembled in any pattern on belt surface per customer's request.

uni M-SNB Accessories

	mm	inch
A	14.0	0.55
B	8.0	0.31
C	3.0	0.12

Belt Specifications

uni M-QNB is a strong 12.7 mm (0.50 inch) pitch closed surface belt which can achieve a tight transfer. The uni M-QNB features a unique new locking system and has colour coded locks giving increased security of correct locking under assembly. Furthermore the belt has a low noise level and is capable of bi-directional travel. This, together with the optional placement of sprockets across the entire width of the belt gives you a belt that is very versatile.

uni M-QNB offers good support of the transported products. In the corrugated industry e.g. the small transfers eliminate sheet creep.

The special tight transfer feature eliminates can tippage. The bottom design allows tight transfer without use of dead plates when using a 19.1 mm (0.75 inch) nose-bar and no vibration even with high speed applications.

uni M-QNB

Pitch: 12.7 mm (0.50 inch)

Straight running

Backflex radius:
20 mm (0.8 inch)

Locking type for uni M-QNB:
Lockpin

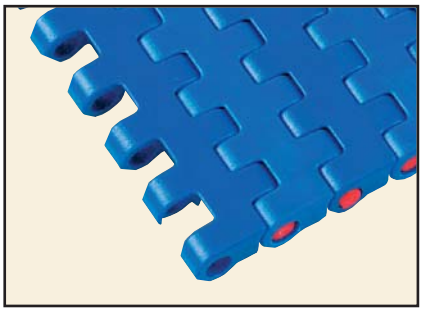
Surface opening:
Closed

Patent pending

Industries and applications

Bakery
Bottling
Breweries
Canning
Can Manufacturing
Corrugated and cardboard

Belt Specifications



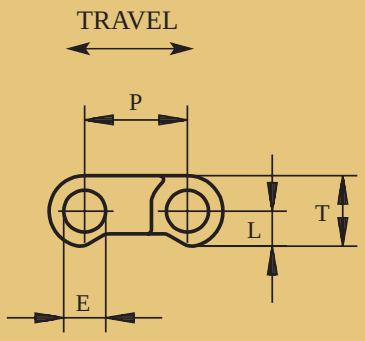
uni M-QNB

Standard materials:

POM-SLF | PP | PP

Other available materials: See page 9 and 10

Standard pin materials: PA6.6 red and natural



	mm	inch
E	5.2	0.20
L	4.4	0.17
P	12.7	0.50
T	8.8	0.35

Standard Belt Widths

mm	inch	mm	inch	mm	inch
76	3.0	683	26.9	1292	50.9
152	6.0	759	29.9	1368	53.9
228	9.0	835	32.9	1443	56.8
304	12.0	912	35.9	1519	59.8
380	15.0	988	38.9	1595	62.8
456	18.0	1063	41.9	1670	65.7
531	20.9	1139	44.8	-	-
607	23.9	1216	47.9	-	-

Belt widths for uni M-QNB in POM, PP and PE.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table.
Belts wider than mentioned in the table can be assembled upon request.

Permissible Tensile Strength

Belt material	POM		PP	
Pin material	PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft
uni M-QNB	19000	1302	13000	891

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.

Belt Weights

Belt material	POM		PP	
Pin material	PA6.6		PA6.6	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni M-QNB	7.5	1.54	4.8	0.98

Max. Load per Sprocket

POM belt		PP belt	
N	lbf	N	lbf
1000	225	800	180

Standard Sprockets

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
10	41.8	1.65	41.5	1.63	28.0	1.10	ø 10.0	ø 0.39	2233MSNB210N
19	78.5	3.09	79.0	3.11	64.0	2.52	ø 19.1	ø 0.75	2233MSNB219N
							sq 25.4	sq 1.00	2233MSNB219N10SQ
							sq 38.1	sg 1.50	2233MSNB219N15SQ
							sq 40.0	sq 1.57	2233MSNB219N40SQ
28	115.4	4.54	116.2	4.57	65	2.56	ø 19.1	ø 0.75	2233MSNB228N
							sq 25.4	sq 1.00	2233MSNB228N10SQ
							sq 38.1	sq 1.50	2233MSNB228N15SQ
							sq 40.0	sq 1.57	2233MSNB228N40SQ
					100	3.94	ø 19.1	ø 0.75	2233MSNB228NBB
							sq 50.8	sq 2.00	2233MSNB228N20SQBB
							sq 63.5	sq 2.50	2233MSNB228N25SQBB
							sq 60.0	sq 2.36	2233MSNB228N60SQBB
38	156.4	6.16	157.4	6.20	75	2.95	ø 19.1	ø 0.75	2233MSNB238N
							sq 25.4	sq 1.00	2233MSNB238N10SQ
							sq 38.1	sq 1.50	2233MSNB238N15SQ
							sq 40.0	sq 1.57	2233MSNB238N40SQ
					100	3.94	ø 19.1	ø 0.75	2233MSNB238NBB
							sq 50.8	sq 2.00	2233MSNB238N20SQBB
							sq 63.5	sq 2.50	2233MSNB238N25SQBB
							sq 50.0	sq 1.97	2233MSNB238N50SQBB
							sq 60.0	sq 2.36	2233MSNB238N60SQBB

sq = Square bore.

Standard material: Polyamide.

Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 20 mm (0.8 inch).
Tooth width: 7 mm (0.3 inch).

Belt Specifications

uni Light is suitable for transport of various kinds of light products. A pitch of 19.1 mm (0.75 inch) enables smooth transfer between belts.

uni Light is available in 10 different versions, including closed, open, vacuum, rough and rubber surfaces.
It is a strong belt with secure pin locking options.

The open surface versions of uni Light are used e.g. where drainage or airflow through the belt is required.

uni Light is available with a moulded rubber surface in a rough and a flat version for increased friction between belt and conveyed items. The uni Light Rough Rubber and Flat Rubber links are supplied in two different material combinations: Black PP with black rubber and white PP with natural colour rubber for direct food contact.

Small juts on the uni Light 10% open belt surface provide a space between belt and conveyed product e.g. wooden mouldings being sprayed with a stained finish.

uni Light

Pitch: 19.1 mm (0.75 inch)

Straight running

Backflex radius:
25 mm (1.0 inch)
Backflex radius, rib:
50 mm (2.0 inch)

Locking types for uni Light:
uni Light endlocks
uni Light rodlocks
Lockpin

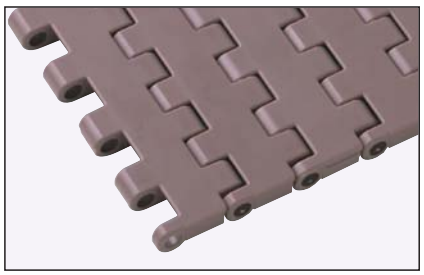
Surface opening:
Please see page 19

Patents:
US: 5.305.869

Industries and applications

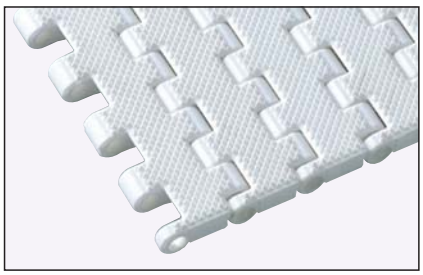
Automotive industry
Bakeries
Beverage
Can Manufacturing
Food processing
Fruits
Packing
PET bottles
Tissue
Vegetables

Belt Specifications



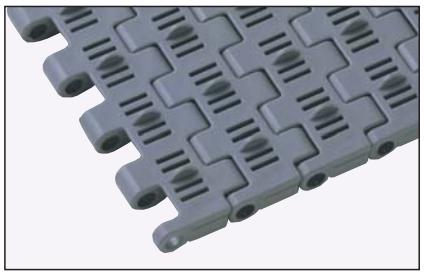
uni Light C

Standard materials:
POM-LF | PP | PP | PP | PE | PA6



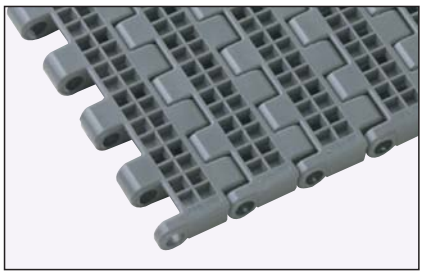
uni Light CR: Has a granulated surface for higher friction.

Moulded to order



uni Light 10% SR: With "juts" to provide a space between the conveyed product and the belt.

Moulded to order

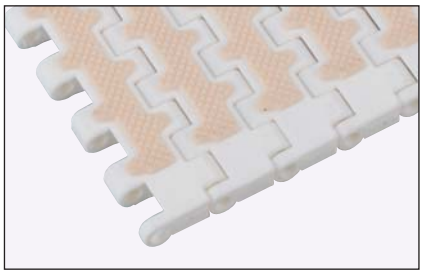


uni Light 18%

Standard material:
POM-D

uni Light Flat Rubber: Available with indented side 15 mm (0.6 inch).

Moulded to order



uni Light Rough Rubber: For inclined transport. Available with indented side 15 mm (0.6 inch).

Moulded to order

Materials for uni Light with rough and flat rubber:

Food industry: White PP-belt with Thermolast K natural rubber (approved for food contact)

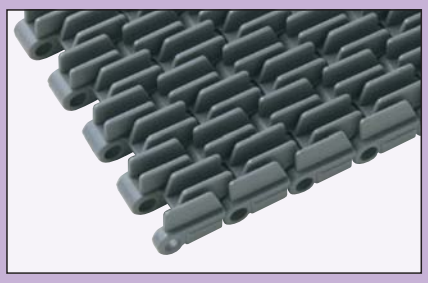
Non food industry: Black PP-belt with Thermolast K black rubber

uni Light 10%

Standard material:
POM-LF

uni Light 22%

Standard materials:
POM-LF | PP | PP



uni Light Rib: For accumulation applications. Finger plates are available for this type.

Moulded to order

uni Light Vacuum: 4 different holes sizes from ø3.2 mm (0.12 inch) to ø5.6 mm (0.22 inch).

Moulded to order

Belt Specifications

uni Light

uni Light standard programme:
See materials and colours on page 19

Other available materials: See page 9 and 10

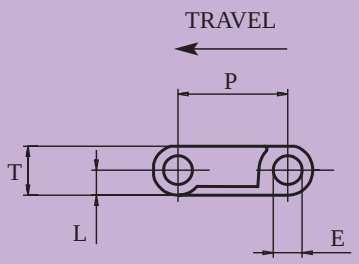
Standard pin materials: AISI 304 SS, PP or PE

Standard Belt Widths

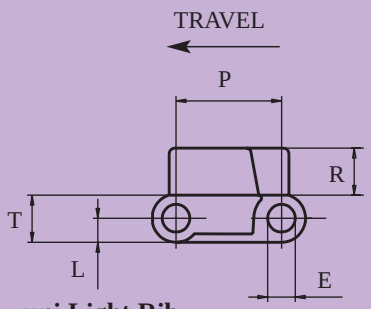
mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	840	33.1	1604	63.2	2369	93.3
153	6.0	917	36.1	1681	66.2	2445	96.3
229	9.0	993	39.1	1757	69.2	2522	99.3
306	12.0	1070	42.1	1834	72.2	2598	102.3
382	15.0	1146	45.1	1910	75.2	2674	105.3
458	18.0	1223	48.1	1987	78.2	2751	108.3
535	21.1	1299	51.1	2063	81.2	2827	111.3
611	24.1	1375	54.1	2139	84.2	2904	114.3
687	27.0	1451	57.1	2216	87.2	2980	117.3
764	30.1	1528	60.2	2292	90.2	3057	120.3

Belt widths for uni Light in POM, PP and PE.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table.
Belts wider than mentioned in the table can be assembled.

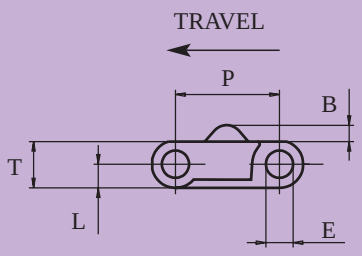
Max. recommended temperature for uni Light Rib in PE is +40°C (+104°F). For higher temperatures uni-chains recommends PP or POM.



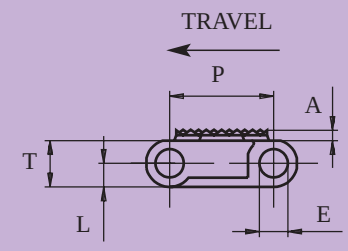
uni Light



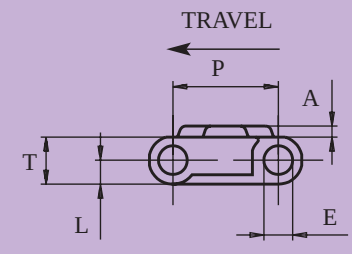
uni Light Rib



uni Light 10% SR



uni Light Rough Rubber



uni Light Flat Rubber

	mm	inch
A	2.0	0.08
B	3.0	0.12
E	5.0	0.20
L	4.3	0.17
P	19.1	0.75
R	7.3	0.29
T	8.5	0.34

Permissible Tensile Strength

	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni Light	10250	702	5125	351	3075	211
uni Light Rough Rubber/Flat Rubber	-	-	5125	351	-	-

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS and PP pins in POM and PP belts.
Load ratings for PE belts are with PE pins.

Belt Weights

Belt material	**POM**				**PP**				**PE**			
Pin material	**plastic**		**steel**		**plastic**		**steel**		**plastic**		**steel**	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni Light C/10%/10% SR	6.9	1.41	13.9	2.85	5.1	1.04	12.0	2.46	5.1	1.04	12.1	2.48
uni Light 18%/22%	5.9	1.21	12.9	2.64	4.4	0.90	13.4	2.74	4.5	0.92	11.5	2.36
uni Light Rib	9.3	1.90	16.5	3.37	6.3	1.29	13.5	2.76	6.5	1.33	14.0	2.87
uni Light vac. 6%/7.5%	6.8	1.39	13.8	2.83	5.3	1.09	12.1	2.48	5.4	1.10	12.2	2.50
uni Light Ro. Rub./Fl.Rub.	-	-	-	-	5.3	1.09	10.7	2.19	-	-	-	-

Standard Sprockets

No. of	**pitch diameter**		**overall diameter**		**hub diameter**		**bore**		**reference no.**
teeth	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**mm**	**inch**	**plastic**
7	43.9	1.73	42.6	1.68	31.0	1.22	ø 19.1	ø 0.75	2833UL07N
10	61.7	2.43	61.7	2.43	45.0	1.77	ø 19.1	ø 0.75	2833UL10N
17	103.7	4.08	105.0	4.13	65.0	2.56	ø 19.1	ø 0.75	2833UL17N
24	146.0	5.75	147.3	5.80	70.0	2.76	ø 19.1	ø 0.75	2833UL24N
					70.0	2.76	sq 38.1	sq 1.50	2833UL24N15SQ
					120.0	4.72	ø 19.1	ø 0.75	2833UL24NBB
25	152.0	5.98	153.3	6.04	70.0	2.76	ø 19.1	ø 0.75	2833UL25N
					70.0	2.76	sq 38.1	sq 1.50	2833UL25N15SQ
					120.0	4.72	ø 19.1	ø 0.75	2833UL25NBB

sq = Square bore.

Standard material: Polyamide.

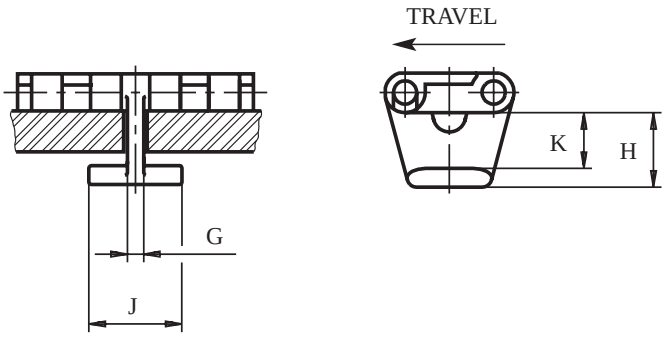
Other sprocket sizes are available upon request.

Please contact uni-chains for further information.

Width of sprockets: 25.0 mm (0.98 inch).
Tooth width: 4.8 mm (0.19 inch).

Belt Specifications

Tabs



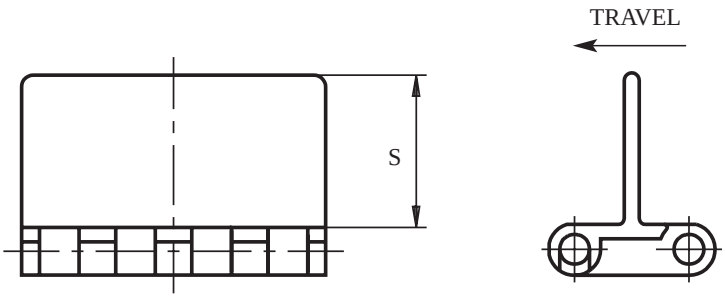
Standard materials:

POM-LF **POM-D**

Note: *uni Light with tabs can be used with sprocket size min. z = 24.*

Note: *In belt systems with tabs the temperature of the conveyor should be constant.*

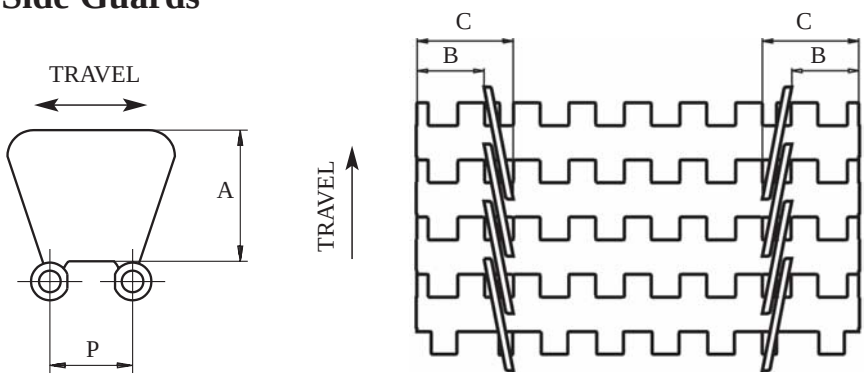
Product Supports



Standard materials:

POM-LF **PP-I** **PP-I** **PE**

Side Guards



Standard materials:

PP-I **PP-I**

uni Light Accessories

When the belt goes from horizontal to inclining travel it is an advantage to provide the belt with tabs in order to hold it down. The tabs can be placed in the entire width of the belt as required.

	mm	inch
G	3.5	0.14
H	15.9	0.63
J	20.0	0.79
K	11.9	0.47

If the products are separated into portions or are transported on inclined conveyors it is an advantage to use product supports.

	mm	inch
S	25.4	1.00
S	50.8	2.00
S	76.2	3.00

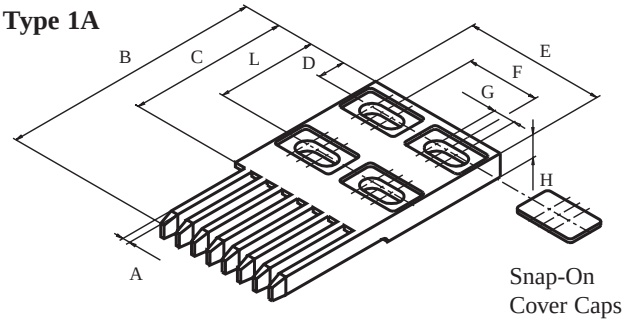
Side guards can be very suitable in many cases where they can secure that the products do not fall off the belt during operation.

	mm	inch
A	31.4	1.23
B	15.0	0.59
C	25.0	0.98
P	19.1	0.75

Belt Specifications

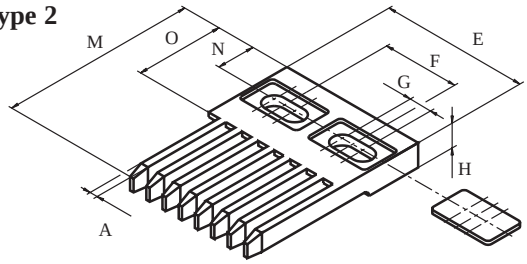
Finger Plates
75.4 mm (2.97 inch)

Type 1A



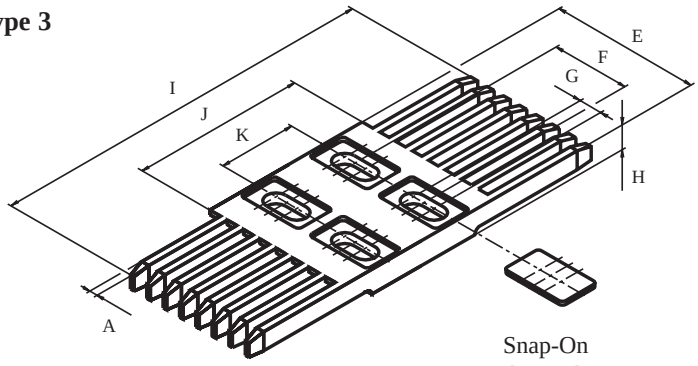
Snap-On
Cover Caps

Type 2



Snap-On
Cover Caps

Type 3



Snap-On
Cover Caps

Standard material:

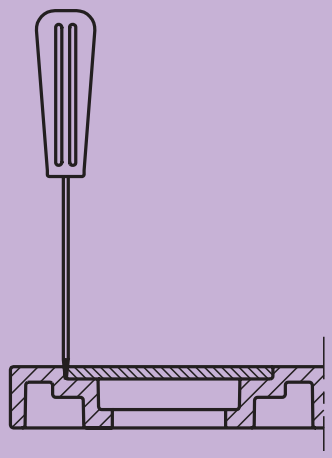
POM-LF

uni Light Accessories

All uni-chains belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

The finger plates can be installed with plastic screws.

The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps can be removed by using a screwdriver that can be inserted between the cover and finger plate.

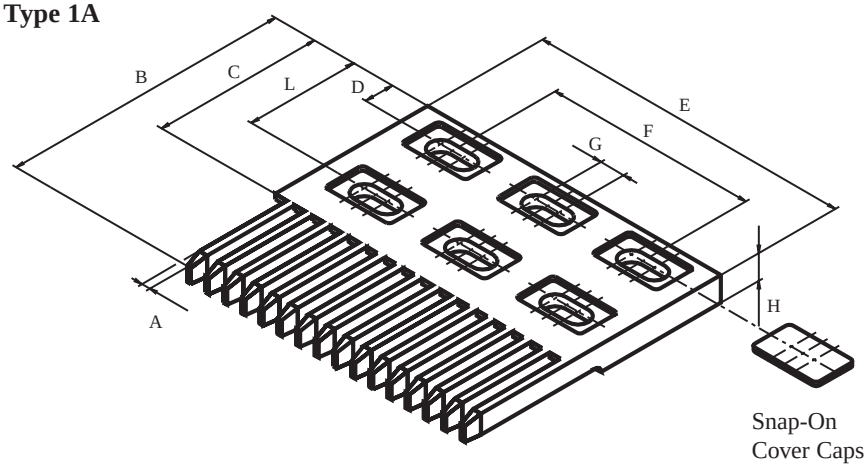


	mm	inch
A	3.8	0.15
B	132.9	5.23
C	80.0	3.15
D	14.9	0.59
E	75.4	3.00
F	40.0	1.57
G	12.0	0.47
H	10.0	0.39
I	197.1	7.76
J	90.3	3.56
K	40.0	1.57
L	54.5	2.15
M	98.9	3.89
N	20.0	0.79
O	45.2	1.78

Belt Specifications

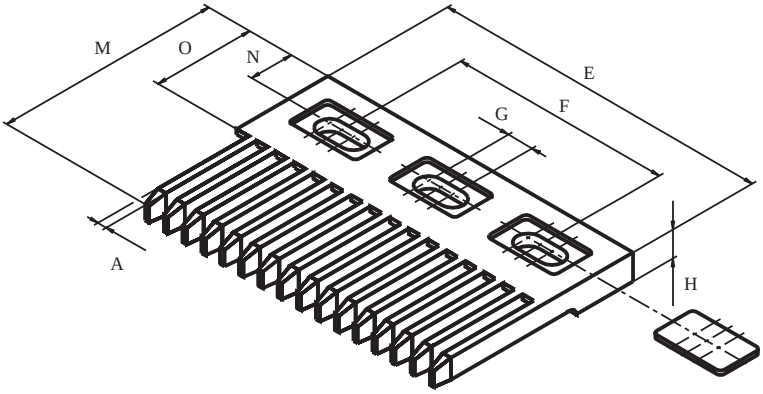
Finger Plates
151.5 mm (5.96 inch)

Type 1A



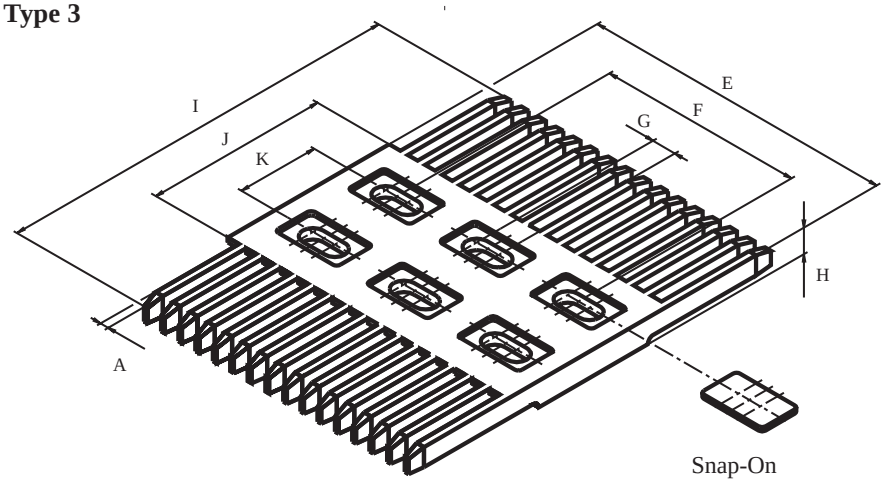
Snap-On
Cover Caps

Type 2



Snap-On
Cover Caps

Type 3



Snap-On
Cover Caps

Standard material:

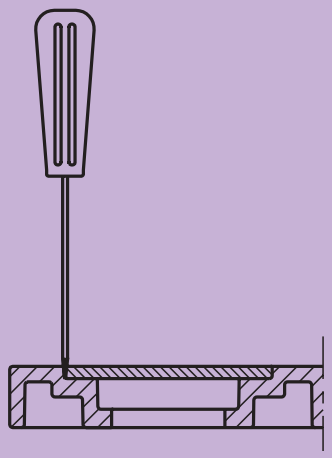
POM-LF

uni Light Accessories

All uni-chains belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

The finger plates can be installed with plastic screws.

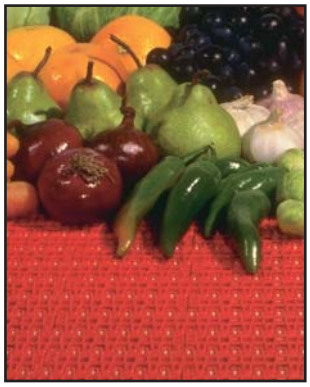
The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps can be removed by using a screwdriver that can be inserted between the cover and finger plate.



	mm	inch
A	3.8	0.15
B	132.9	5.23
C	80.0	3.15
D	14.9	0.59
E	151.5	6.00
F	100.0	3.94
G	12.0	0.47
H	10.0	0.39
I	197.1	7.76
J	90.3	3.56
K	40.0	1.57
L	54.5	2.15
M	98.9	3.89
N	20.0	0.79
O	45.2	1.78

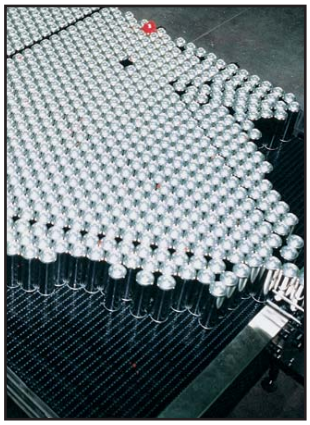
Belt Specifications

uni SNB M1 is a 35% open surface belt system with a pitch of 25.4 mm (1.00 inch) and considerable strength.



Products are very stable on the uni SNB M1 belt due to a very tight surface pattern.

uni SNB M1 is also available with ribs which, together with finger plates, ensure product transfer without any products tipping over.



The very smooth surface makes uni SNB M1 well suited for accumulation systems with back line pressure.

uni SNB M1

Pitch: 25.4 mm (1.00 inch)

Straight running

Backflex radius: 30 mm (1.2 inch)
Backflex radius, rib: 60 mm (2.4 inch)

Locking type for uni SNB M1:
Endlock

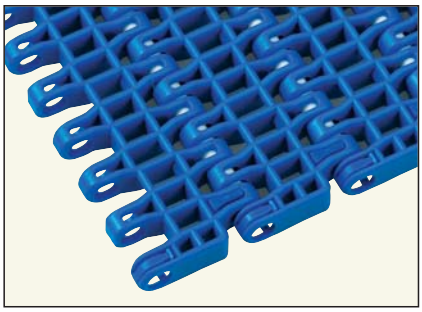
Surface opening: 35%

Patents
U.S.: 5.379.883, 5.482.156
EU: 0.652.169

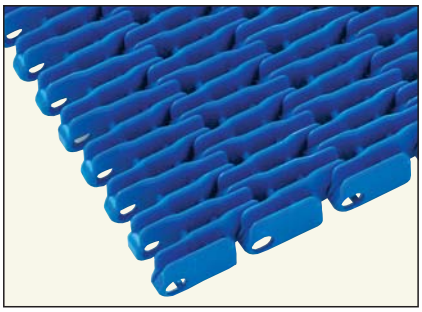
Industries and applications

Breweries
Canning
Food processing

Belt Specifications



uni SNB M1



uni SNB M1 Rib

Standard materials:

POM-SLF | PP | PE

Standard materials:

POM-SLF | PP | PE

Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS, PP or PE

Standard Belt Widths

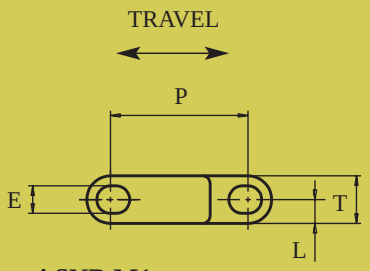
mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	838	33.0	1600	63.0	2362	93.0
152	6.0	914	36.0	1676	66.0	2438	96.0
229	9.0	991	39.0	1753	69.0	2515	99.0
305	12.0	1067	42.0	1829	72.0	2591	102.0
381	15.0	1143	45.0	1905	75.0	2667	105.0
457	18.0	1219	48.0	1981	78.0	2743	108.0
533	21.0	1295	51.0	2057	81.0	2819	111.0
610	24.0	1372	54.0	2134	84.0	2896	114.0
686	27.0	1448	57.0	2210	87.0	2972	117.0
762	30.0	1524	60.0	2286	90.0	3048	120.0

Belt widths for uni SNB M1 in POM, PP and PE.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table. Belts wider than mentioned in the table can be assembled.
Max. recommended temperature for uni SNB M1 Rib in PE is +40°C (+104°F). For higher temperatures uni-chains recommends PP or POM.

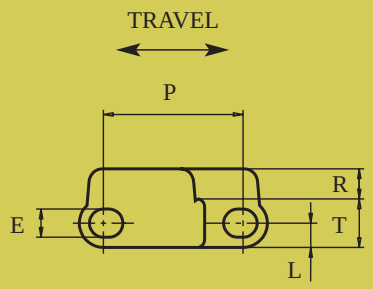
Permissible Tensile Strength

	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni SNB M1	30000	2055	15000	1028	9000	617

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS and PP pins in POM and PP belts.
Load ratings for PE belts are with PE pins.



uni SNB M1



uni SNB M1 Rib

	mm	inch
E	5.1	0.20
L	4.4	0.17
P	25.4	1.00
R	5.5	0.22
T	8.8	0.35

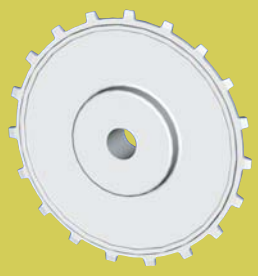
Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni SNB M1	5.7	1.17	10.7	2.19	4.0	0.82	8.9	1.82	4.4	0.90	9.2	1.88
uni SNB M1 Rib	8.9	1.80	14.0	2.90	5.8	1.20	9.1	1.90	6.2	1.30	9.6	2.00

Standard Sprockets

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
10	82.2	3.24	82.6	3.25	65.0	2.56	ø 19.1	ø 0.75	2333SNB10N
							sq 38.1	sq 1.50	2333SNB10N15SQ
							sq 40.0	sq 1.57	2333SNB10N40SQ
12	98.1	3.86	99.3	3.91	65.0	2.56	ø 19.1	ø 0.75	2333SNB12N
							sq 38.1	sq 1.50	2333SNB12N15SQ
							sq 40.0	sq 1.57	2333SNB12N40SQ
18	146.3	5.76	148.7	5.85	110.0	4.33	ø 19.1	ø 0.75	2333SNB18NBB
							sq 38.1	sq 1.50	2333SNB18N15SQBB
							sq 63.5	sq 2.50	2333SNB18N25SQBB
							sq 40.0	sq 1.57	2333SNB18N40SQBB
							sq 60.0	sq 2.36	2333SNB18N60SQBB
19	154.3	6.07	156.6	6.17	65.0	2.56	ø 19.1	ø 0.75	2333SNB19N
							sq 38.1	sq 1.50	2333SNB19N15SQ
							sq 40.0	sq 1.57	2333SNB19N40SQ
					110.0	4.33	sq 63.5	sq 2.50	2333SNB19N25SQBB
							sq 60.0	sq 2.36	2333SNB19N60SQBB
20	162.4	6.39	165.0	6.50	110.0	4.33	ø 19.1	ø 0.75	2333SNB20NBB
							sq 38.1	sq 1.50	2333SNB20N15SQBB
							sq 63.5	sq 2.50	2333SNB20N25SQBB
							sq 40.0	sq 1.57	2333SNB20N40SQBB
							sq 60.0	sq 2.36	2333SNB20N60SQBB

sq = Square bore.



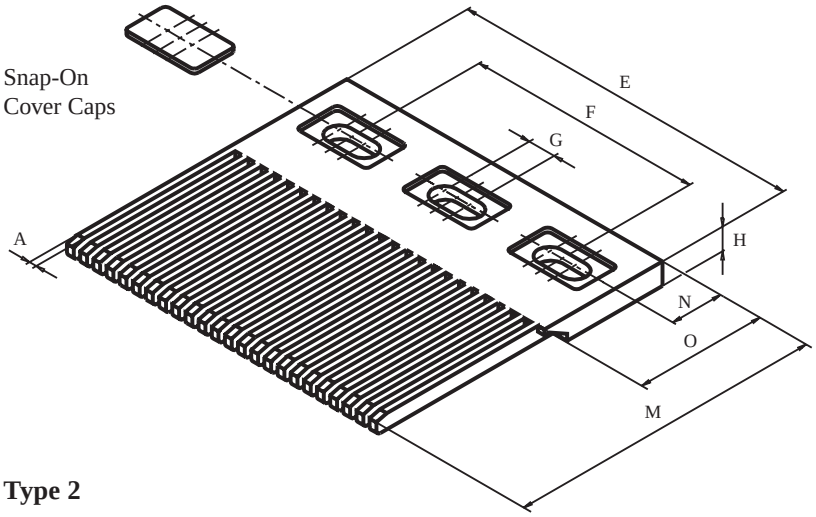
Standard material: Polyamide.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 25.0 mm (0.98 inch).
Tooth width: 3.3 mm (0.13 inch).

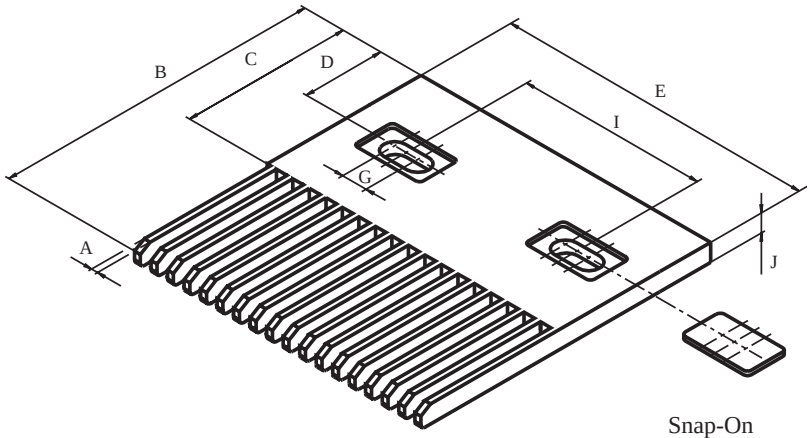
The sprocket positions are determined by the bottom design. An application running in both directions must therefore have two sets of sprockets - one for each direction.

Belt Specifications

Finger Plates



Type 2



Type 2S

Standard material:

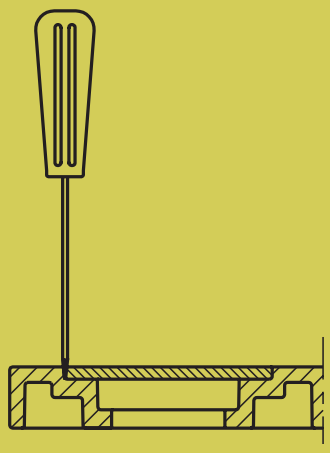
POM-SLF

uni SNB M1 Accessories

All uni-chains belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

The finger plates can be installed with plastic screws.

The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps can be removed by using a screwdriver that can be inserted between the cover and finger plate.



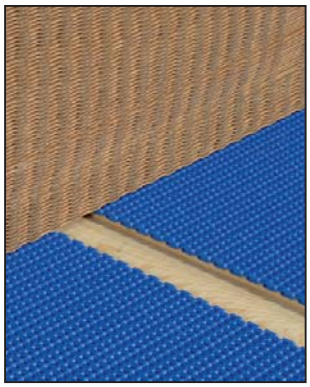
	mm	inch
A	2.5	0.10
B	165.0	6.50
C	95.0	3.74
D	51.0	2.01
E	152.1	5.99
F	100.0	3.94
G	12.0	0.47
H	10.3	0.41
I	76.0	3.00
J	6.0	0.24
M	135.0	5.31
N	23.0	0.91
O	57.0	2.24

Belt Specifications

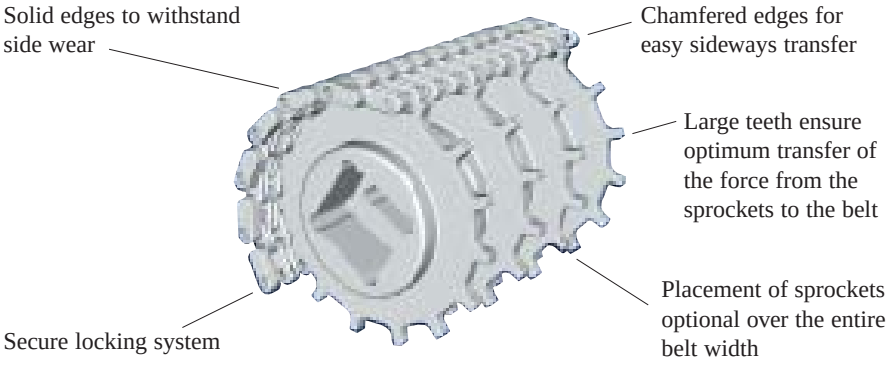
uni SNB M2, 25.4 mm (1.00 inch) is a heavy duty belt for the can industry.

The open structure facilitates cleaning. uni SNB M2 has chamfered edges for easy sideways transfer. The belt has solid edges to withstand side wear. The placement of the sprockets is optional over the entire width of the belt. uni SNB M2 can travel in both directions. This requires the installation of two sets of sprockets.
The secure locking system makes assembly and disassembly easy.

The patented surface pattern reduces the friction as well as the dirt and the aluminium oxide remnants on the belt.



uni SNB M2 provides great stability and support as well as a smooth flow. Compared to roller installations the belt is safe for personnel to walk on.



uni SNB M2

Pitch: 25.4 mm (1.00 inch)

Straight running

Backflex radius: 30 mm (1.2 inch)

Locking type for uni SNB M2:
Endlock

Surface opening: 34%

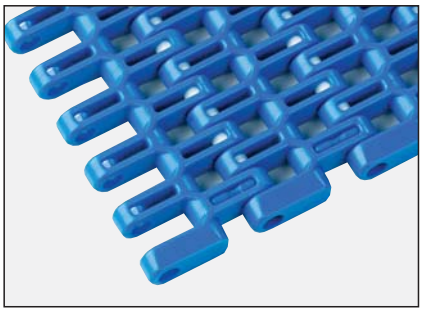
Patents
U.S.: 5.379.883, 6.073.756
EU: 0.652.169

Industries and applications

Bakery
Can manufacturing
Canning
Can palletizing
Cooling conveyors
Can accumulation conveyors
Millboard
Newspaper
PET bottles
Tires

For uni SNB M2A Multi Hinge chains for single liners see the uni Conveyor Chains Catalogue.

Belt Specifications



uni SNB M2

Standard materials:

POM-D | **PP** | **PE**

Other available materials: See page 9 and 10

Standard pin materials: PP or PE

Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	836	32.9	1596	62.8	2356	92.8
152	6.0	912	35.9	1672	65.8	2432	95.7
228	9.0	988	38.9	1748	68.8	2508	98.7
304	12.0	1064	41.9	1824	71.8	2584	101.7
379	14.9	1140	44.9	1900	74.8	2660	104.7
456	18.0	1216	47.9	1976	77.8	2736	107.7
532	20.9	1292	50.9	2052	80.8	2812	110.7
608	23.9	1368	53.9	2128	83.8	2888	113.7
684	26.9	1444	56.8	2204	86.8	2964	116.7
760	29.9	1520	59.8	2280	89.8	3040	119.7

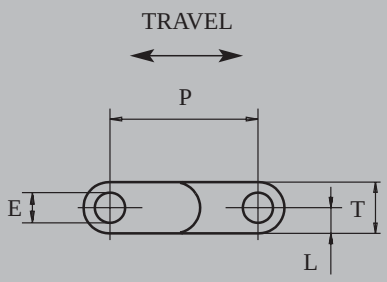
Permissible Tensile Strength

Belt material	POM		PP		PE	
Pin material	PP and PE		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni SNB M2	23500	1610	15000	1028	10000	685

Belt Weights

Belt material	POM		PP		PE	
Pin material	PP		PP		PE	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni SNB M2	6.3	1.29	4.3	0.88	4.4	0.90

uni SNB M2



	mm	inch
E	5.2	0.20
L	4.4	0.17
P	25.4	1.00
T	8.8	0.35

Belt widths for uni SNB M2 in POM, PP and PE.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table.
Belts wider than mentioned in the table can be assembled.
For higher temperatures uni-chains recommends PP or POM.

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.

Max. Load per Sprocket

uni SNB M2	N	lbf
POM	1400	315
PP and PE	1100	247

Max. load for two-part double rowed sprockets: Multiply above values by two.

Standard Sprockets

No. of teeth	pitch diameter mm	pitch diameter inch	overall diameter mm	overall diameter inch	hub diameter mm	hub diameter inch	bore mm	bore inch	reference no. one-part	reference no. two-part
10	82.2	3.24	86.5	3.41	65.0	2.56	ø 19.1	ø 0.75	75332SNB10N	-
							sq 38.1	sq 1.50	75332SNB10N15SQ	-
							sq 40.0	sq 1.57	75332SNB10N40SQ	-
12	98.1	3.86	103.2	4.06	65.0	2.56	ø 19.1	ø 0.75	75332SNB12N	-
							sq 38.1	sq 1.50	75332SNB12N15SQ	-
							sq 40.0	sq 1.57	75332SNB12N40SQ	-
18	146.3	5.76	152.7	6.01	65.0	2.56	ø 19.1	ø 0.75	75332SNB18N	-
							sq 38.1	sq 1.50	75332SNB18N15SQ	-
							sq 40.0	sq 1.57	75332SNB18N40SQ	-
					120.0	4.72	ø 19.1	ø 0.75	75332SNB18NBB	-
							sq 60.0	sq 2.36	75332SNB18N60SQBB	-
					40.0	1.57	ø 19.1	ø 0.75	-	75332SNB18NT
					50.0	1.97	ø 25.0	ø 0.98	-	75332SNB18NT25
					60.0	2.36	ø 30.0	ø 1.18	-	75332SNB18NT30
					-	-	sq 38.1	sq 1.50	-	75332SNB18NT15SQ
							sq 40.0	sq 1.57	-	75332SNB18NT40SQ
							sq 60.0	sq 2.36	-	75332SNB18NT60SQ
20	162.4	6.39	169.1	6.66	65.0	2.56	ø 19.1	ø 0.75	75332SNB20N	-
							sq 38.1	sq 1.50	75332SNB20N15SQ	-
							sq 40.0	sq 1.57	75332SNB20N40SQ	-
					120.0	4.72	ø 19.1	ø 0.75	75332SNB20NBB	-
							sq 60.0	sq 2.36	75332SNB20N60SQBB	-
					40.0	1.57	ø 19.1	ø 0.75	-	75332SNB20NT
					50.0	1.97	ø 25.0	ø 0.98	-	75332SNB20NT25
					60.0	2.36	ø 30.0	ø 1.18	-	75332SNB20NT30
					-	-	sq 38.1	sq 1.50	-	75332SNB20NT15SQ
							sq 40.0	sq 1.57	-	75332SNB20NT40SQ
							sq 60.0	sq 2.36	-	75332SNB20NT60SQ

sq = Square bore.
Standard material: Polyamide.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

One-part sprockets
Width of sprockets: 25 mm (1.0 inch).
Tooth width: 6 mm (0.2 inch).

One-part sprockets

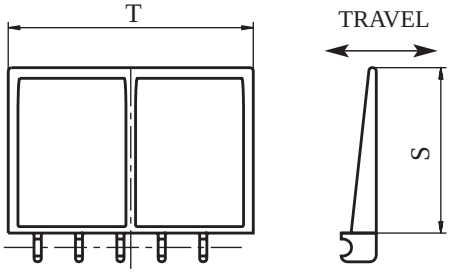
Two-part double row sprockets

Two-part sprockets
Width of two-part sprockets: 50.8 mm (2.00 inch).
Note: For heavy wear applications the toothed rim can be supplied in stainless steel.

Product Supports

Standard materials:

POM-D PP-I PE



uni SNB M2 Accessories

	mm	inch
S	25.4	1.00
S	50.8	2.00
T	76.2	3.00

Belt Specifications

uni QNB is a strong 25.4 mm (1.00 inch) pitch all purpose belt.
The uni QNB has chamfered edges allowing easy side transfer and symmetrical edges making assembly and disassembly simple. Furthermore uni QNB has a colour identification of the lock which assures correct locking during assembly. The belt's bi-directional travel feature and the optional placement of sprockets allow uni QNB to be used in many different applications.

uni QNB has become very popular in the corrugated and cardboard industry. Its flat, solid, smooth and even surface increases safety for the workers and eliminates sheet warp, pressure damage and marks on the lower sheets. A steady run eliminates stack tippage.

uni QNB is the strong 1 inch pitch belt for heavy duty applications, e.g. in the canning industry.

uni QNB with rubber moulded into the links ensures a steady work flow and good friction. The rubber pattern allows space for return wearstrips.

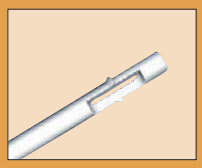
uni QNB

Pitch: 25.4 mm (1.00 inch)

Straight running

Backflex radius: 40 mm (1.6 inch)

Locking types for uni QNB:
Endlock system
Lockpin



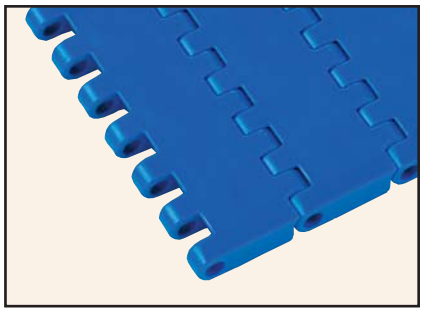
Surface opening:
Closed

Patent pending

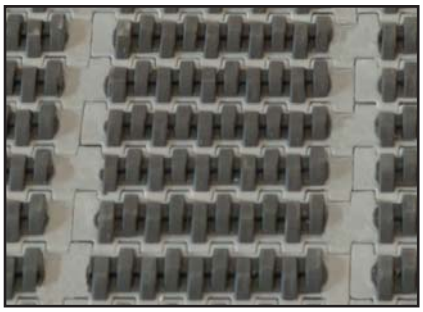
Industries and applications

Breweries
Bulk packs
Cardboard
Corrugated
Industrial conveyance
Laundry
Luggage
Tire

Belt Specifications



uni QNB C



uni QNB with rubber

Standard materials:

POM- SLF | PP

Standard material:

PP — Rubber material: Thermolast K, black

Other available materials: See page 8 and 9

Standard pin materials: PP, white and PA6.6, blue or red

Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	683	26.9	1290	50.8	1898	74.7	2505	98.6
152	6.0	759	29.9	1366	53.8	1973	77.7	2581	101.6
228	9.0	835	32.9	1442	56.8	2049	80.7	2657	104.6
304	12.0	911	35.9	1518	59.8	2125	83.7	2732	107.6
379	14.9	987	38.8	1594	62.8	2201	86.7	2808	110.6
455	17.9	1063	41.8	1670	65.7	2277	89.6	2884	113.6
531	20.9	1139	44.8	1746	68.7	2353	92.6	2960	116.5
607	23.9	1214	47.8	1822	71.7	2429	95.6	3036	119.5

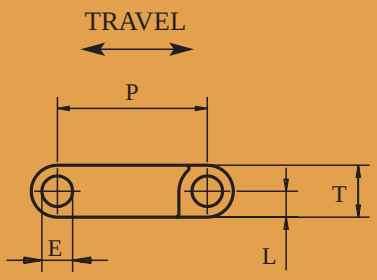
Belt widths for uni QNB in POM and PP.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table.
Belts wider than mentioned in the table can be assembled upon request.

Permissible Tensile Strength

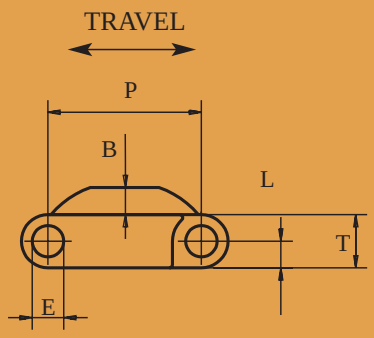
Belt material	POM				PP			
Pin material	PA6.6		PP		PA6.6		PP	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni QNB	35000	2398	35000	2398	20000	1370	20000	1370
uni QNB with rubber	-	-	-	-	-	-	20000	1370

Belt Weights

Belt material	POM				PP			
Pin material	PP		PA6.6		PP		PA6.6	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni QNB	8.3	1.70	8.4	1.72	5.3	1.09	5.4	1.11
uni QNB with rubber	-	-	-	-	6.9	1.41	-	-



	mm	inch
E	5.2	0.20
L	4.4	0.17
P	25.4	1.00
T	8.8	0.35



uni QNB with rubber

	mm	inch
B	4.5	0.18
E	5.2	0.20
L	4.4	0.17
P	25.4	1.00
T	8.8	0.35

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.

Max. Load per Sprocket

POM belt		PP belt	
N	lbf	N	lbf
2300	517	1300	292

Standard Sprockets

No. of teeth	pitch diameter mm	pitch diameter inch	overall diameter mm	overall diameter inch	hub diameter mm	hub diameter inch	bore mm	bore inch	reference no. plastic
10	82.2	3.24	80.3	3.16	65.0	2.56	ø 19.1	ø 0.75	1433QNB10N
							sq 25.4	sq 1.00	1433QNB10N10SQ
							sq 38.1	sq 1.50	1433QNB10N15SQ
							sq 40.0	sq 1.57	1433QNB10N40SQ
12	98.1	3.86	96.8	3.81	70.0	2.76	ø 19.1	ø 0.75	1433QNB12N
							sq 25.4	sq 1.00	1433QNB12N10SQ
							sq 38.1	sq 1.50	1433QNB12N15SQ
							sq 40.0	sq 1.57	1433QNB12N40SQ
15	122.2	4.81	121.5	4.78	70.0	2.76	ø 19.1	ø 0.75	1433QNB15N
							sq 25.4	sq 1.00	1433QNB15N10SQ
							sq 38.1	sq 1.50	1433QNB15N15SQ
							sq 40.0	sq 1.57	1433QNB15N40SQ
					100.0	3.94	ø 19.1	ø 0.75	1433QNB15NBB
							sq 50.8	sq 2.00	1433QNB15N20SQBB
							sq 63.5	sq 2.50	1433QNB15N25SQBB
							sq 60.0	sq 2.36	1433QNB15N60SQBB
18	146.3	5.76	146.1	5.75	70.0	2.76	ø 19.1	ø 0.75	1433QNB18N
							sq 25.4	sq 1.00	1433QNB18N10SQ
							sq 38.1	sq 1.50	1433QNB18N15SQ
							sq 40.0	sq 1.57	1433QNB18N40SQ
					100.0	3.94	ø 19.1	ø 0.75	1433QNB18NBB
							sq 50.8	sq 2.00	1433QNB18N20SQBB
							sq 63.5	sq 2.50	1433QNB18N25SQBB
							sq 60.0	sq 2.36	1433QNB18N60SQBB
19	154.3	6.07	154.2	6.07	70.0	2.76	ø 19.1	ø 0.75	1433QNB19N
							sq 25.4	sq 1.00	1433QNB19N10SQ
							sq 38.1	sq 1.50	1433QNB19N15SQ
							sq 40.0	sq 1.57	1433QNB19N40SQ
					100.0	3.94	ø 19.1	ø 0.75	1433QNB19NBB
							sq 50.8	sq 2.00	1433QNB19N20SQBB
							sq 63.5	sq 2.50	1433QNB19N25SQBB
							sq 60.0	sq 2.36	1433QNB19N60SQBB

sq = Square bore.

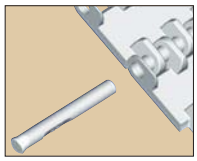
Standard material: Polyamide.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 25 mm (1.0 inch).
Tooth width: 10 mm (0.4 inch).

Belt Specifications

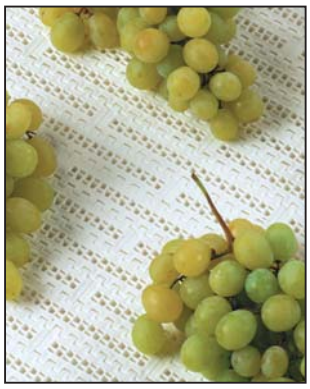
The hygienic 25.4 mm (1.00 inch) pitch belt for light food products.

Due to the unique hinge and sprocket design the uni CNB is very easy to clean. The hinges are closed when the belt runs flat. (When passing over the sprockets the hinges open wide and any dirt can be rinsed off). The hinge-driven sprocket design prevents particles from clustering between belt and sprockets.



uni CNB is locked with the reliable rodlock or lockpin system which will not disengage and mix with the conveyed items.

uni CNB with closed surface is suitable for light food applications.



uni CNB 18% open is used for applications requiring draining, air flow, e.g. for drying or thawing of products.
Max. hole size is 5 x 5 mm (0.2 x 0.2 inch).

uni CNB 22% open has a max. hole size of 5 x 10 mm (0.2 x 0.4 inch) and can be used in applications requiring draining or air flow.

uni CNB

Pitch: 25.4 mm (1.00 inch)

Straight running

Backflex radius: 40 mm (1.6 inch)

Locking types for uni CNB:
uni CNB Rodlocks
Lockpin

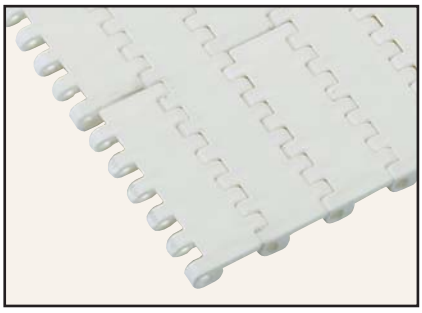
Surface opening:
Please see page 36

Patents:
GB2309062

Industries and applications

Accumulation tables
Cookie and roll conveyors
Depanning conveyors
Dough depositing conveyors
Draining processes
Food processing
Incline transport
Infeed/discharge to trimming and filleting
Metal detectors
Ready meals conveyors
Salad baggers
Surge conveyors
Thawing of frozen food

Belt Specifications



uni CNB C

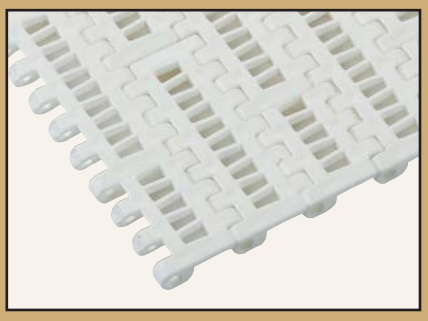
Standard materials:

POM-D | PP | **PP** | PE

uni CNB 18%

Standard material:

PP



uni CNB 22%

Standard material:

PP

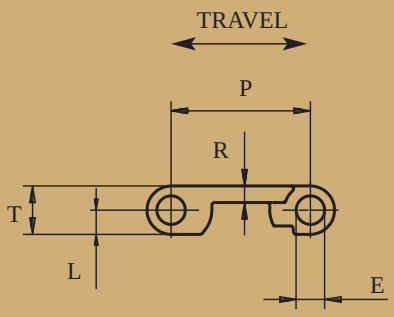
Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS, PP or PE

Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	835	32.9	1594	62.8	2353	92.6
152	6.0	911	35.9	1670	65.7	2429	95.6
228	9.0	987	38.8	1746	68.7	2505	98.6
304	12.0	1063	41.8	1822	71.7	2581	101.6
379	14.9	1139	44.8	1898	74.7	2657	104.6
455	17.9	1214	47.8	1973	77.7	2732	107.6
531	20.9	1290	50.8	2049	80.7	2808	110.6
607	23.9	1366	53.8	2125	83.7	2884	113.6
683	26.9	1442	56.8	2201	86.7	2960	116.5
759	29.9	1518	59.8	2277	89.6	3036	119.5

Belt widths for uni CNB in POM, PP and PE.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table.
Belts wider than mentioned in the table can be assembled upon request.



	mm	inch
E	5.2	0.20
L	4.4	0.17
P	25.4	1.00
R	3.0	0.12
T	8.8	0.35

Permissible Tensile Strength

Belt material	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni CNB with steel pins	15700	1076	7500	514	5800	397
uni CNB with plastic pins	13500	925	7500	514	6200	425

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.

Max. Load per Sprocket

POM belt		PP/PE belt	
N	lbf	N	lbf
600	135	500	112

Belt Weights

Belt material	POM		PP		PE	
Pin material	plastic		plastic		plastic	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni CNB C	5.8	1.19	3.9	0.80	4.0	0.82
uni CNB 18%	5.0	1.02	3.5	0.72	3.6	0.74
uni CNB 22%	4.8	0.98	3.4	0.70	3.5	0.72

Standard Sprockets

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
10	82.2	3.24	80.6	3.17	70.0	2.76	ø 19.1	ø 0.75	1933CNB10N
							sq 38.1	sq 1.50	1933CNB10N15SQ
							sq 40.0	sq 1.57	1933CNB10N40SQ
12	98.1	3.86	96.8	3.81	70.0	2.76	ø 19.1	ø 0.75	1933CNB12N
							sq 38.1	sq 1.50	1933CNB12N15SQ
							sq 40.0	sq 1.57	1933CNB12N40SQ
15	122.2	4.81	121.5	4.78	70.0	2.76	ø 19.1	ø 0.75	1933CNB15N
							sq 38.1	sq 1.50	1933CNB15N15SQ
							sq 40.0	sq 1.57	1933CNB15N40SQ
					96.0	3.78	sq 63.5	sq 2.50	1933CNB15N25SQBB
							sq 60.0	sq 2.36	1933CNB15N60SQBB
18	146.3	5.76	146.1	5.75	70.0	2.76	ø 19.05	ø 0.75	1933CNB18N
							sq 38.1	sq 1.50	1933CNB18N15SQ
							sq 40.0	sq 1.57	1933CNB1840SQ
					96.0	3.78	ø 19.1	ø 0.75	1933CNB18NBB
							sq 63.5	sq 2.50	1933CNB18N25SQBB
							sq 60.0	sq 2.36	1933CNB18N60SQBB
19	154.3	6.07	154.2	6.07	70.0	2.76	ø 19.1	ø 0.75	1933CNB19N
							sq 38.1	sq 1.50	1933CNB19N15SQ
							sq 40.0	sq 1.57	1933CNB1940SQ
					96.0	3.78	ø 19.1	ø 0.75	1933CNB19NBB
							sq 63.5	sq 2.50	1933CNB19N25SQBB
							sq 60.0	sq 2.36	1933CNB19N60SQBB

sq = Square bore.

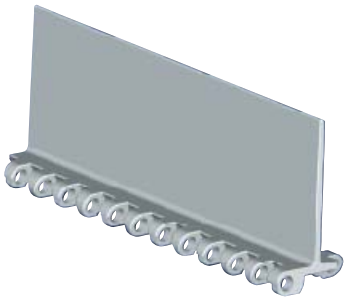
Standard material: Polyamide.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 25 mm (1.0 inch).
Tooth width: 12 mm (0.5 inch).

Belt Specifications

Product Supports

Product Support (No Indent)

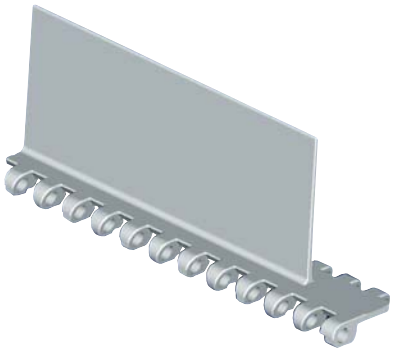


Standard materials:

POM-D | PP-I | PE

uni CNB product supports are available with moulded indents. Thus, machining of links is avoided, and optimum cleanability assured.

Product Support RI (Right Indent)



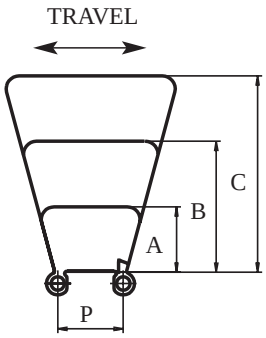
Standard material:

PP-I

uni CNB Product Support RI (Right Indent)
uni CNB Product Support LI (Left Indent)
uni CNB Product Support DI - indents in both sides (Double Indents)

Standard indent is 27 mm (1.1 inch)

Side Guards

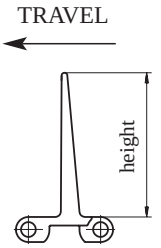


Standard material:

PP-I

uni CNB Accessories

If the products are separated into portions or are transported on inclined conveyors it is an advantage to use product supports.



The heights are mentioned in the table below.

Height	
mm	inch
25.4	1.00
50.8	2.00
76.2	3.00

Side guards can be very suitable in many cases where they can secure that the products do not fall off the belt during operation.

	mm	inch
A	25.4	1.00
B	50.8	2.00
C	76.2	3.00
P	25.4	1.00

Belt Specifications

uni Light EP is the belt system with the widest range of designs and surface openings (closed to 46% open). uni Light EP has a pitch of 38.1 mm (1.50 inch). It is suitable for transport of light products.

uni Light EP has a very good price/strength ratio. For increased strength it can be supplied with reinforcement links.

uni Light EP 28% open

uni Light EP 8.5% open

uni Light EP 8.5% open

uni Light EP

Pitch: 38.1 mm (1.50 inch)

Straight running

Backflex radius: 75 mm (3.0 inch)
Backflex radius, rib: 150 mm (5.9 inch)

Locking types for uni Light EP:
uni Light EP endlocks
uni Light EP rodlocks

Surface opening:
Please see page 40

Patents
U.S.: 5.305.869, 5.000.312

Please note:
uni Light EP can be supplied with steel reinforcement links. See page 76.

For uni Light EP Multi Hinge chains: Please see the uni Conveyor Chains Catalogue.

Industries and applications

Automotive
Bakeries
Fruit
Manufacturing of plastic bottles
Packing
Pharmaceutical
Vegetable

uni Light EP C

Standard materials:

POM-D | POM-LF | PP | PP | PE

uni Light EP 8.5%

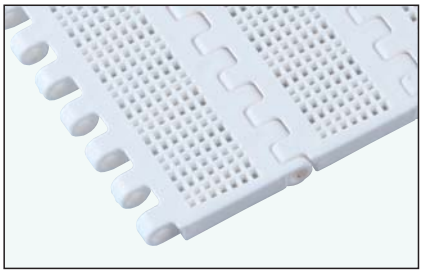
Standard material:

PP

uni Light EP 18%

Standard material:

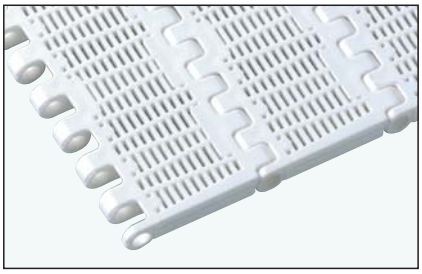
PE



uni Light EP 22%

Standard material:

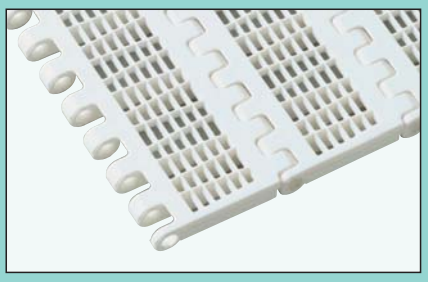
PP



uni Light EP 22% fine meshed

Standard material:

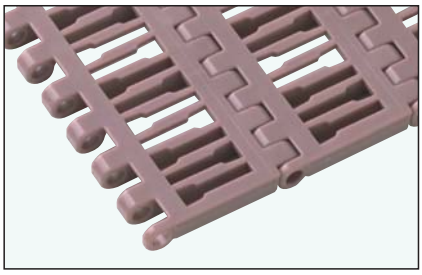
PP



uni Light EP 28%

Standard material:

PE



uni Light EP 33%

Moulded to order

uni Light EP 46%

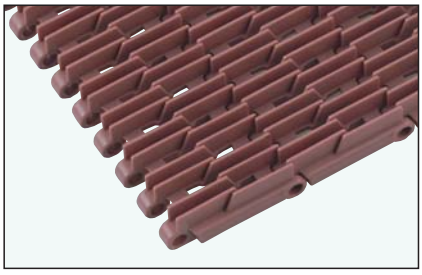
Standard material:

PP

uni Light EP Rib C

Standard material:

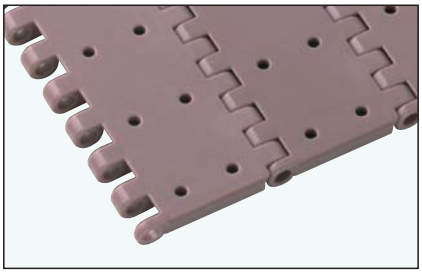
PP



uni Light EP Rib 33%

Standard materials:

POM-LF



uni Light EP Vacuum

Moulded to order

Belt Specifications

uni Light EP standard programme:
See materials and colours on page 40

Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS, PP or PE

Standard Belt Widths

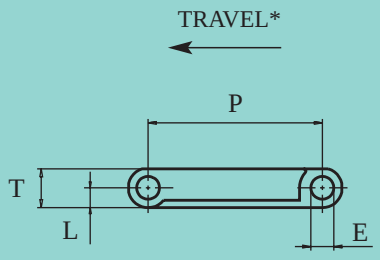
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
102	4.0	661	26.0	1170	46.0	1678	66.0	2186	86.0
152	6.0	712	28.0	1220	48.0	1728	68.0	2236	88.0
254	10.0	763	30.0	1271	50.0	1779	70.0	2287	90.0
305	12.0	814	32.0	1322	52.0	1830	72.0	2338	92.0
355	14.0	865	34.0	1373	54.0	1881	74.0	2389	94.0
406	16.0	916	36.0	1424	56.0	1932	76.0	2389	94.4
458	18.0	966	38.0	1474	58.0	1982	78.0	2440	96.0
509	20.0	1017	40.0	1525	60.0	2033	80.0	-	-
559	22.0	1068	42.0	1576	62.0	2084	82.0	-	-
610	24.0	1119	44.0	1627	64.0	2135	84.0	-	-

Belt widths for uni Light EP in POM, PP and PE.
Please note the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table. Belts wider than mentioned in the table can be assembled.
Max. recommended temperature for uni Light EP Rib in PE is +40°C (+104°F). For higher temperatures uni-chains recommends PP or POM.

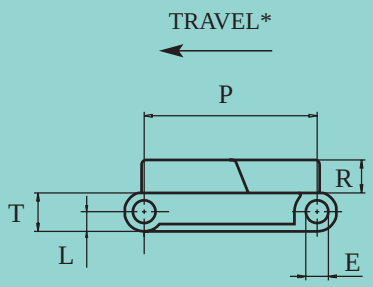
Permissible Tensile Strength

	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni Light EP	10250	702	5125	351	3075	211

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS and PP pins in POM and PP belts.
Load ratings for PE belts are with PE pins.



uni Light EP



uni Light EP Rib

* uni-chains recommends this travel direction. However, travel in both directions is possible.

	mm	inch
E	5.0	0.20
L	4.3	0.17
P	38.1	1.50
R	7.3	0.29
T	8.5	0.34

Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni Light EP C/8.5%/vac.	5.7	1.16	9.3	1.90	3.7	0.76	7.3	1.50	4.0	0.82	7.6	1.56
uni Light EP 18%/22%/28%	4.8	0.98	8.4	1.72	3.4	0.70	7.0	1.43	3.6	0.74	7.2	1.48
uni Light EP 33%/46%	4.4	0.90	8.0	1.64	3.1	0.63	6.7	1.37	3.3	0.68	6.9	1.41
uni Light EP Rib	7.1	1.45	10.7	2.19	4.6	0.94	8.2	1.68	5.0	1.0	8.6	1.76

Standard Sprockets

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
7	87.8	3.46	86.0	3.39	65.0	2.56	ø 19.1	ø 0.75	2533EP07N
							sq 38.1	sq 1.50	2533EP07N15SQ
9	111.4	4.39	110.6	4.35	90.0	3.54	ø 19.1	ø 0.75	2533EP09N
							sq 38.1	sq 1.50	2533EP09N15SQ
10	123.3	4.85	122.7	4.83	100.0	3.94	ø 19.1	ø 0.75	2533EP10N
							sq 38.1	sq 1.50	2533EP10N15SQ
11	135.2	5.32	134.9	5.31	110.0	4.33	ø 19.1	ø 0.75	2533EP11N
							sq 38.1	sq 1.50	2533EP11N15SQ
12	147.2	5.80	147.1	5.79	120.0	4.72	ø 19.1	ø 0.75	2533EP12N
							sq 38.1	sq 1.50	2533EP12N15SQ
15	183.3	7.22	183.6	7.23	120.0	4.72	ø 19.1	ø 0.75	2533EP15N
							sq 38.1	sq 1.50	2533EP15N15SQ

sq = Square bore.

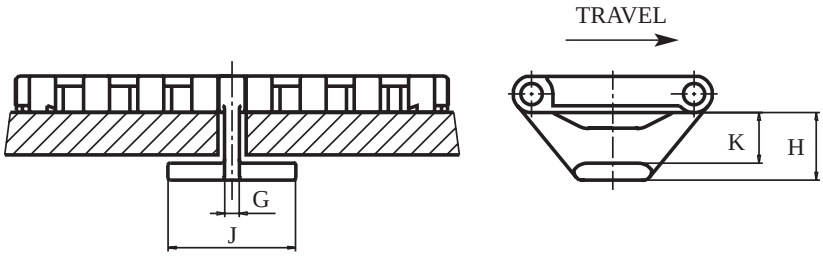
Standard material: Polyamide.

Other sprocket sizes are available upon request
Please contact uni-chains for further information.

Width of sprockets: 23.2 mm (0.91 inch).
Tooth width: 11.8 mm (0.46 inch).

Belt Specifications

Tabs



Standard materials:

POM-D | POM-LF

uni Light EP with tabs can be used with sprocket size min. z = 11.

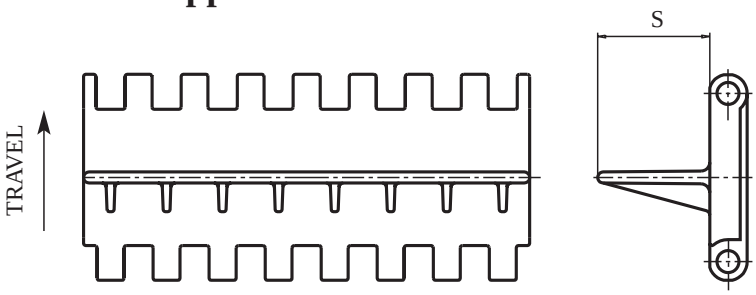
Note: *In belt systems with tabs the temperature of the conveyor should be constant.*

uni Light EP Accessories

When the belt goes from horizontal to inclining travel it is an advantage to provide the belt with tabs in order to hold it down. The tabs can be placed in the entire width of the belt as required.

	mm	inch
G	3.5	0.14
H	15.9	0.63
J	26.0	1.02
K	11.9	0.47

Product Supports



Standard materials:

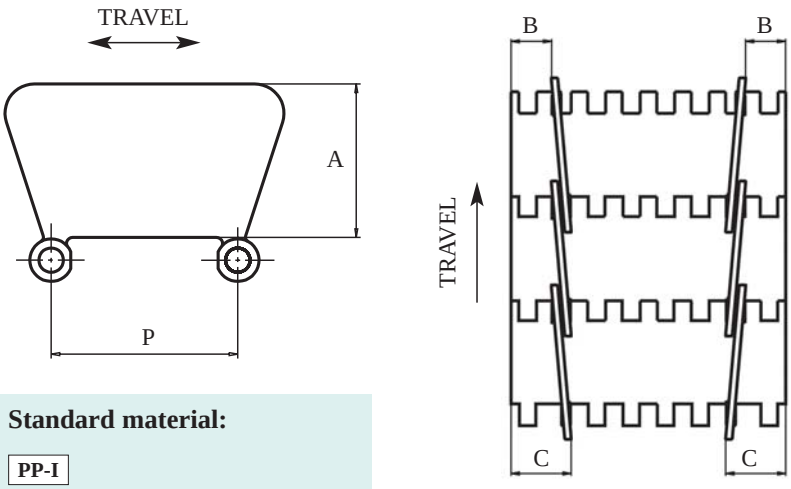
POM-D | PP-I | PE

The product support is also available with drain holes in various versions. Please contact uni-chains for further information.

If the products are separated into portions or are transported on inclined conveyors it is an advantage to use product supports.

	mm	inch
S	25.4	1.00
S	50.8	2.00
S	76.2	3.00

Side Guards



Standard material:

PP-I

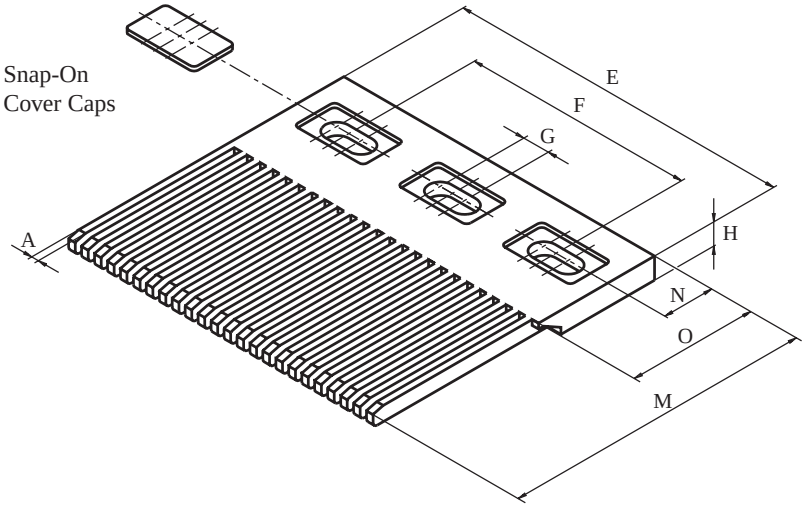
Side guards can be very suitable in many cases where they can secure that the products do not fall off the belt during operation.

	mm	inch
A	31.7	1.25
B	15.0	0.59
C	23.0	0.91
P	38.1	1.50

Belt Specifications

Finger Plates

Type 2



Standard material:

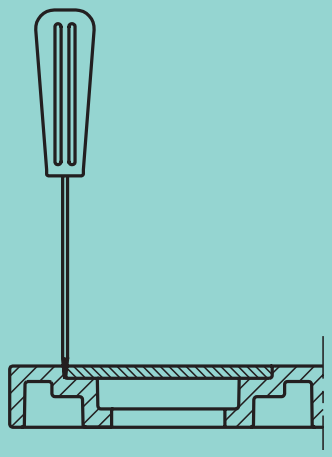
POM-LF

uni Light EP Accessories

All uni-chains belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

The finger plates can be installed with plastic screws.

The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps can be removed by using a screwdriver that can be inserted between the cover and finger plate.

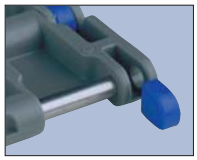


	mm	inch
A	3.3	0.13
E	152.4	6.00
F	101.6	4.00
G	12.0	0.47
H	10.3	0.41
M	135.0	5.31
N	23.0	0.91
O	57.0	2.24

Belt Specifications

uni SSB, 38.1 mm (1.50 inch) pitch, has been designed specifically to meet the demands for conveying of filled and empty cans or plastic bottles but with its closed and open designs it is also suitable for many other applications. For easy side transfer uni SSB is made with chamfered edges.

uni SSB is a very strong belt assembled with the solid uni Endlock system.



uni SSB has a proven chain/sprocket interaction.

The closed version of uni SSB is suitable for heavy duty applications.

uni SSB is available in two open versions, 29% and 32%, which are used in applications requiring air flow or drainage.

For easy side transfer uni SSB is made with chamfered edges.

uni SSB

Pitch: 38.1 mm (1.50 inch)

Straight running

Backflex radius: 45 mm (1.8 inch)

Locking type for uni SSB:
uni SSB endlocks

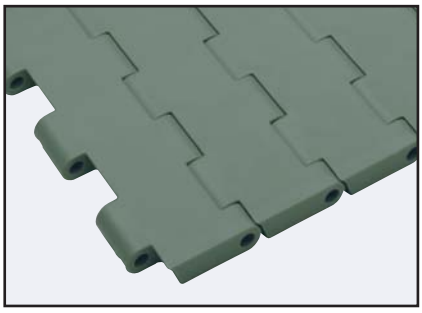
Surface opening:
Please see page 46

For uni SSB Multi Hinge chains: Please see the uni Conveyor Chains Catalogue

Industries and applications

Bakeries
Breweries
Canning
Heavy load/duty
Glass manufacturing

Belt Specifications



uni SSB C

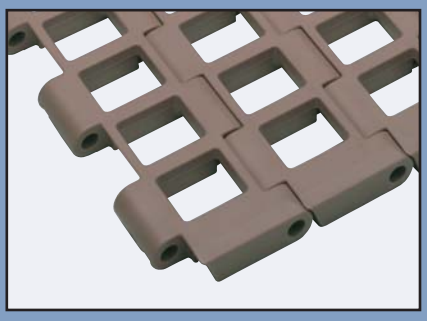
Standard materials:

POM-LF PP

uni SSB 29%

Standard material:

POM-LF



uni SSB 32%

Standard materials:

POM-LF PP

Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS, PP or GR

Standard Belt Widths

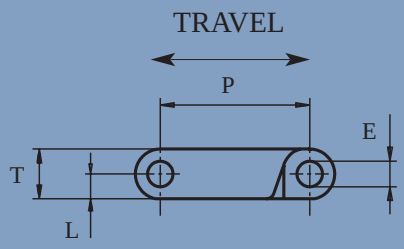
mm	inch	mm	inch	mm	inch	mm	inch
76	3.0	835	32.9	1595	62.8	2355	92.7
152	6.0	911	35.9	1671	65.8	2431	95.7
228	9.0	987	38.9	1747	68.8	2507	98.7
304	12.0	1063	41.9	1823	71.8	2583	101.7
380	15.0	1139	44.9	1899	74.8	2659	104.7
456	18.0	1216	47.9	1975	77.8	2735	107.7
532	20.9	1291	50.8	2051	80.8	2811	110.7
607	23.9	1367	53.8	2127	83.7	2887	113.7
683	26.9	1443	56.8	2203	86.7	2963	116.6
759	29.9	1519	59.8	2279	89.7	3039	119.6

Belt widths for uni SSB in POM, PP and PE.

Please note that the values in the table are max. values.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.

Please note that if special material is used, the width might differ from the widths shown in the table.

Belts wider than mentioned in the table can be assembled.



	mm	inch
E	6.5	0.26
L	6.4	0.25
P	38.1	1.50
T	12.7	0.50

Links K300 and K600:
Closed and open versions can be combined to different belt widths.

Permissible Tensile Strength

uni SSB	POM		PP	
	N/m	lbf/ft	N/m	lbf/ft
uni SSB with steel pins	36000	2467	18000	1233
uni SSB with GR pins	19400	1329	13000	891
uni SSB with PP pins	9300	637	11000	754

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.

Belt Weights

Belt material	POM						PP					
Pin material	GR		PP		steel		GR		PP		steel	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni SSB	11.3	2.31	11.1	2.27	13.6	2.79	7.4	1.52	7.2	1.47	9.9	2.03

Standard Sprockets

uni SSB single row

No. of	pitch diameter		overall diameter		hub diameter		bore		reference no.	
teeth	mm	inch	mm	inch	mm	inch	mm	inch	plastic	steel
19	117.3	4.62	117.1	4.61	63.0	2.48	ø 19.1	ø 0.75	1633SSB19N	1631SSB19S
21	129.3	5.09	130.0	5.12	63.0	2.48	ø 19.1	ø 0.75	1633SSB21N	1631SSB21S
23	141.2	5.56	142.0	5.59	63.0	2.48	ø 19.1	ø 0.75	1633SSB23N	1631SSB23S
25	153.2	6.03	154.2	6.07	63.0	2.48	ø 19.1	ø 0.75	1633SSB25N	1631SSB25S
27	165.2	6.50	166.6	6.56	63.0	2.48	ø 19.1	ø 0.75	1633SSB27N	1631SSB27S
29	177.2	6.98	179.0	7.05	63.0	2.48	ø 19.1	ø 0.75	1633SSB29N	1631SSB29S
31	189.3	7.45	191.3	7.53	63.0	2.48	ø 19.1	ø 0.75	1633SSB31N	1631SSB31S

Standard material: Polyamide.

Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width: 15.0 mm (0.59 inch).

Two part uni SSB single row

No of	pitch diameter		overall diameter		hub diameter		bore		reference no.
teeth	mm	inch	mm	inch	mm	inch	mm	inch	plastic
19	117.3	4.62	117.1	4.61	58.0	2.28	ø 19.1	ø 0.75	1633SSB19NT
21	129.3	5.09	130.0	5.12	58.0	2.28	ø 19.1	ø 0.75	1633SSB21NT
23	141.2	5.56	142.0	5.59	58.0	2.28	ø 19.1	ø 0.75	1633SSB23NT
25	153.2	6.03	154.2	6.07	58.0	2.28	ø 19.1	ø 0.75	1633SSB25NT

Standard material: Polyamide.

Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width: 15.0 mm (0.59 inch).

Belt Specifications

uni SSB double row

No. of	pitch diameter		overall diameter		hub diameter		bore		reference no.	
teeth	mm	inch	mm	inch	mm	inch	mm	inch	plastic	steel
19	117.3	4.62	117.1	4.61	63.0	2.48	ø 19.1	ø 0.75	303382019N	303182019S
21	129.3	5.09	130.0	5.12	63.0	2.48	ø 19.1	ø 0.75	303382021N	303182021S
23	141.2	5.56	142.0	5.59	63.0	2.48	ø 19.1	ø 0.75	303382023N	303182023S
25	153.2	6.03	154.2	6.07	63.0	2.48	ø 19.1	ø 0.75	303382025N	303182025S
27	165.2	6.50	166.6	6.56	63.0	2.48	ø 19.1	ø 0.75	303382027N	303182027S
29	177.2	6.98	179.0	7.05	63.0	2.48	ø 19.1	ø 0.75	303382029N	303182029S
31	189.3	7.45	191.3	7.53	63.0	2.48	ø 19.1	ø 0.75	303382031N	303182031S

Standard material: Polyamide.

Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width each row: 15.0 mm (0.59 inch).

Two part uni SSB double row

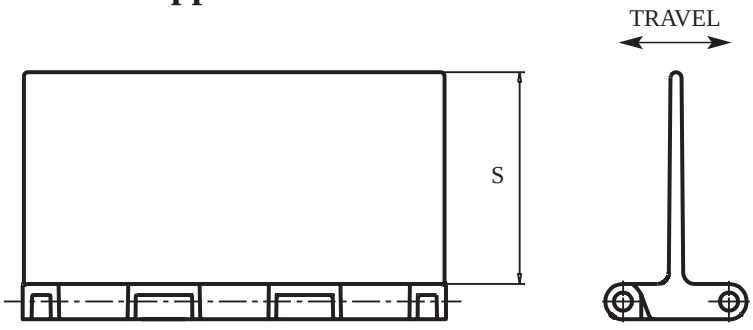
No. of	pitch diameter		overall diameter		hub diameter		bore		reference no.
teeth	mm	inch	mm	inch	mm	inch	mm	inch	plastic
19	117.3	4.62	117.1	4.61	58.0	2.28	ø 19.05	ø 0.75	303382019NT
21	129.3	5.09	130.0	5.12	58.0	2.28	ø 19.05	ø 0.75	303382021NT
23	141.2	5.56	142.0	5.59	58.0	2.28	ø 19.05	ø 0.75	303382023NT
25	153.2	6.03	154.2	6.07	58.0	2.28	ø 19.05	ø 0.75	303382025NT

Standard material: Polyamide.

Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width each row: 15.0 mm (0.59 inch).

Product Supports



Standard materials:

POM-LF PP-I

uni SSB Accessories

	mm	inch
S	76.1	3.00

Can be machined to other heights on request.

Belt Specifications

uni L-SNB, 50.0 mm (1.97 inch) pitch, is designed for heavy-duty applications, such as mass handling, palletizers or pasteurizers where the different heat zones demand a strong belt system.

The special surface profile of the belt is designed to give minimum resistance against products and wearstrips. The open design is easy-to-clean.

uni L-SNB is a strong belt for pasteurizers as it is able to withstand the extreme conditions in an application with different heat zones.

uni L-SNB is also available in a rib version that can be used with finger plates and thus is suitable for product transfer applications.

uni L-SNB

Pitch: 50.0 mm (1.97 inch).

Straight running

Backflex radius: 70 mm (2.8 inch)
Backflex radius, rib: 140 mm (5.5 inch)

Locking type for uni L-SNB:
uni L-SNB Endlock

Surface opening: 36%

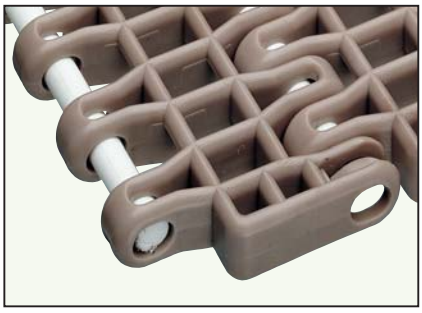
Patents
U.S.: 5.482.156, 5.379.883
EU: 0.652.169

Please note:
uni L-SNB can be supplied with reinforcement links

Industries and applications

Bakeries
Cooling tunnels
Depalletisers
Fruit and vegetable industry
Mass handling
Meat and fish industry
Microwave
Packaging
Pasteurizers
Poultry industry

Belt Specifications



uni L-SNB

Standard materials:

POM-LF | PP | PP | PE

uni L-SNB Rib

Standard materials:

POM-LF | PP

Other available materials: See page 9 and 10

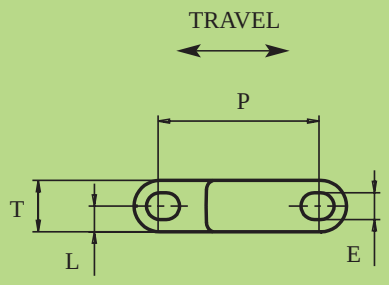
Standard pin materials: AISI 304 SS, PP or PE

Standard Belt Widths

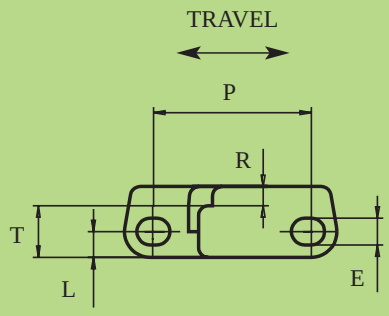
mm	inch	mm	inch	mm	inch	mm	inch
152	6.0	912	35.9	65.9	1673	2433	95.8
228	9.0	988	38.9	68.8	1749	2509	98.8
304	12.0	1064	41.9	71.8	1825	2585	101.8
380	15.0	1140	44.9	74.8	1901	2661	104.8
456	18.0	1217	47.9	77.8	1977	2737	107.8
532	21.0	1293	50.9	80.8	2053	2813	110.8
608	23.9	1369	53.9	83.8	2129	2889	113.8
684	26.9	1445	56.9	86.8	2205	2965	116.7
760	29.9	1521	59.9	89.8	2281	3041	119.7
836	32.9	1597	62.9	92.8	2357	3117	122.7

Belt widths for uni L-SNB in POM, PP and PE.

Please note that the tolerance is 0.2% of the belt width.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the widths might differ from widths shown in the table.
Belts wider than mentioned can be assembled.
Max. recommended temperature for uni L-SNB Rib in PE is +40°C (+104°F). For higher temperatures uni-chains recommends PP or POM.



uni L-SNB



uni L-SNB Rib

	mm	inch
E	8.3	0.33
L	8.0	0.31
P	50.0	1.97
R	6.0	0.23
T	16.0	0.63

Permissible Tensile Strength

	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni L-SNB	35000	2398	17500	1199	10500	719
uni L-SNB Rib	(55000)	3768	29800	2042	17800	1220

The values in the tables are for belt widths 1 m (3.3 ft) at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS pins, PP and PE pins.
( ) = with PA6 pins only.

Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni L-SNB	10.2	2.09	16.7	3.42	6.7	1.37	13.2	2.70	7.3	1.50	13.8	2.83
uni L-SNB Rib	14.8	3.03	21.3	4.36	9.6	1.97	16.1	3.30	10.6	2.17	17.6	3.61

Standard Sprockets

No of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
6	100.0	3.94	92.5	3.64	70.0	2.76	ø 19.1	ø 0.75	2033LSNB06N
8	130.7	5.15	128.6	5.06	70.0	2.76	ø 19.1	ø 0.75	2033LSNB08N
					85.0	3.35	ø 19.1	ø 0.75	2033LSNB08NBB
10	161.8	6.37	159.8	6.29	70.0	2.76	ø 19.1	ø 0.75	2033LSNB10N
					117.0	4.60	ø 19.1	ø 0.75	2033LSNB10NBB
12	193.2	7.61	192.5	7.58	70.0	2.76	ø 19.1	ø 0.75	2033LSNB12N
					117.0	4.60	ø 19.1	ø 0.75	2033LSNB12NBB

Standard material: Polyamide.

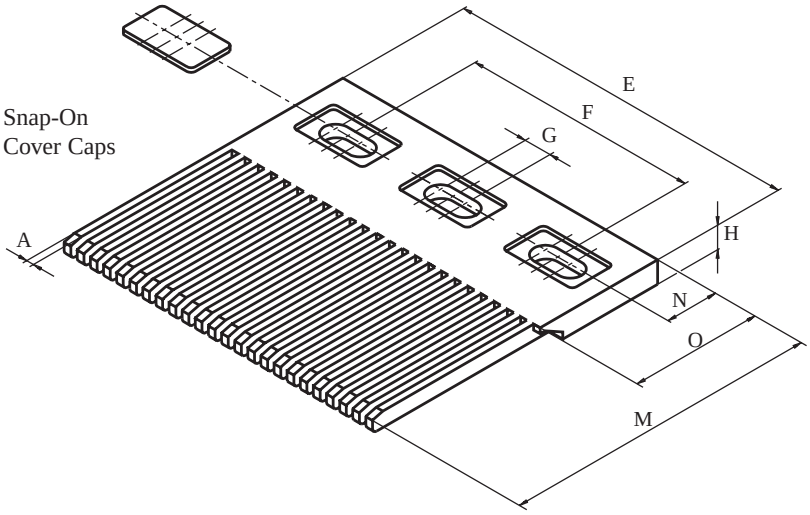
Sprockets in steel and split sprockets are available.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width: 7.0 mm (0.28 inch).

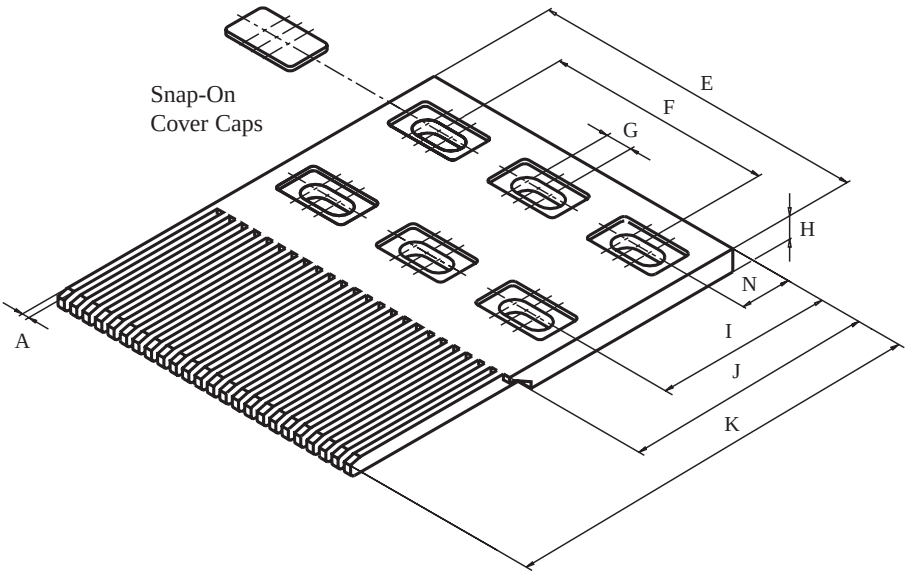
Belt Specifications

Finger Plates

Type A



Type B



Standard material:

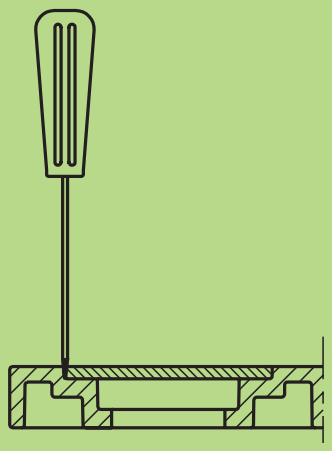
POM-LF

uni L-SNB Accessories

All uni-chains belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

The finger plates can be installed with plastic screws.

The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps can be removed by using a screwdriver that can be inserted between the cover and finger plate.



	mm	inch
A	2.5	0.10
E	152.1	5.99
F	100.3	3.95
G	12.0	0.48
H	10.0	0.39
I	80.0	3.15
J	114.0	4.49
K	192.0	7.56
M	135.0	5.31
N	23.0	0.91
O	57.0	2.24

Belt Specifications

The uni OPB series, 50.0 mm (1.97 inch) pitch, with its many variants and combination possibilities is the most versatile straight running belt in the uni-chains range of belt systems.

15 combinations of top and bottom surfaces and a wide range of accessories makes it suitable for almost any application from direct food contact to the transport of people.

uni OPB is a very strong and easy-to-clean belt. It is available in two thicknesses and in closed and many different open versions.

Product supports and side guards in different heights enable e.g inclined transport. Various open versions are suitable for applications with drainage or air flow.

uni OPB 8 20% open and 25% open are very popular in the fish industry, providing a solid basis for the transport in wet surroundings.

uni OPB with a rough non-skid surface is used for transport of junior skiers and also for personnel in the auto-mobile industry.

uni OPB

Pitch: 50.0 mm (1.97 inch)

Straight running

Backflex radius: 75 mm (3.0 inch)
Backflex radius, rib: 300 mm (11.8 inch)
Backflex radius, side guards: 200 mm (7.9 inch)

Locking types for uni OPB:
uni OPB endlocks
uni OPB rodlocks

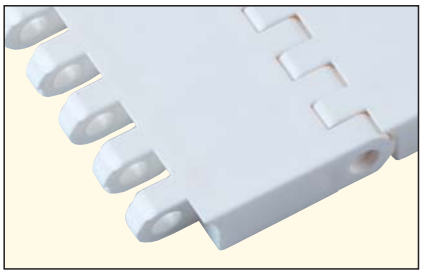
Surface opening:
Please see page 54

Patents:
U.S.: 5.305.869, 5.000.312

Please note:
uni OPB can be supplied with steel reinforcement links. See page 76.

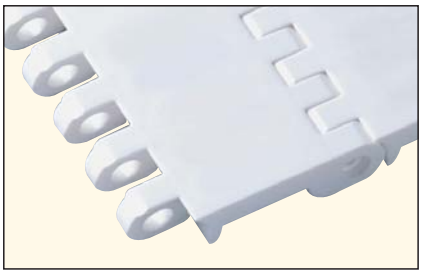
Industries and applications

Automotive
Bakeries
Car wash
Dairies
Fish processing
Food processing
Fruit
Snack food
Ski industry
Vegetable



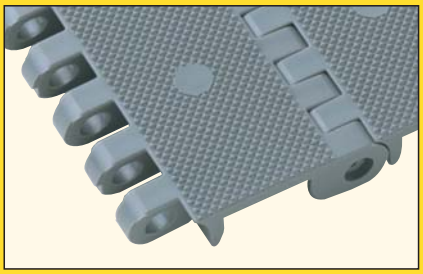
uni OPB 4-C
uni OPB 4V-C

Standard materials:
PP PE



uni OPB 8-C

Standard materials:
PP PP PE PE

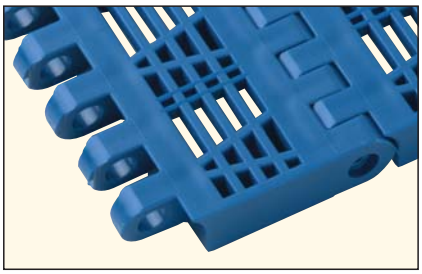


uni OPB 4V and 8-C rough: Rough with improved non-skid surface.

Moulded to order

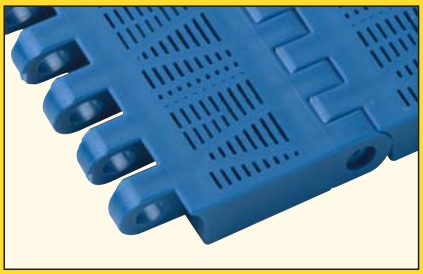
uni OPB 8-20%

Moulded to order



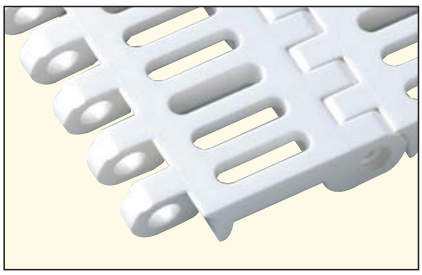
uni OPB 4V-23%: E.g. washing of vegetables.

Standard materials:
PP PP



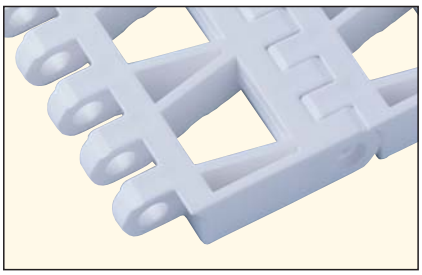
uni OPB 4V-23% fine meshed:
E.g. for rice in a boiling process.

Standard materials:
PP PP



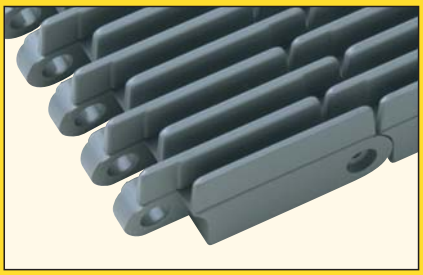
uni OPB 8-25%: E.g.conveying of fish.

Standard materials:
PP PE



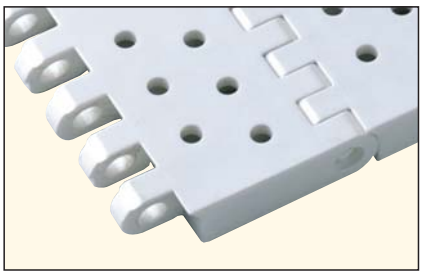
uni OPB 4V-36%: For maximum air-flow through the belt.

Standard material:
PP



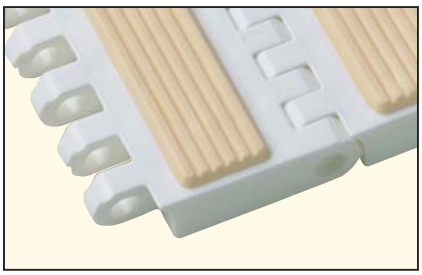
uni OPB 4V-Rib 23%: Can be used with finger plates.

Standard material:
PP



uni OPB 4V Vacuum

Standard material:
PE



uni OPB with rubber inserts

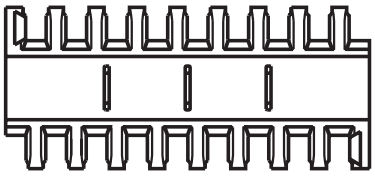
Moulded to order

Belt Specifications

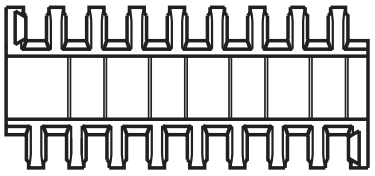
uni OPB standard programme:
See materials and colours on page 54

Other available materials: See page 9 and 10

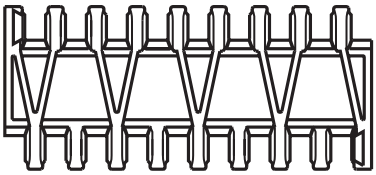
Standard pin materials: AISI 304 SS, PP or PE



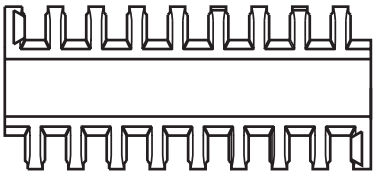
uni OPB 4/OPB 8M
Thickness 4.0 mm (0.16 inch) and 7.8 mm (0.31 inch).



uni OPB 8
Thickness 7.8 mm (0.31 inch).



uni OPB 4V
With reinforcement ribs on the bottom of 4.0 mm (0.16 inch) thickness belt.



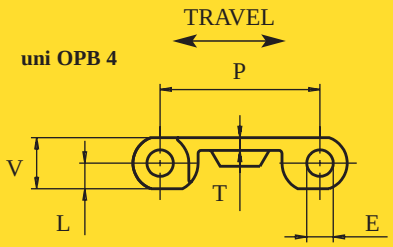
uni OPB 8P
Thickness 7.8 mm (0.31 inch).

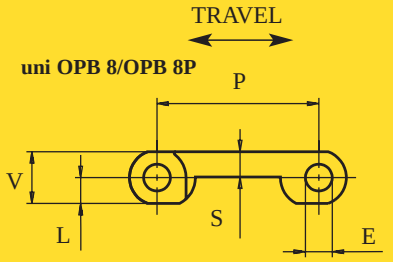
Combinations of top and bottom surface:

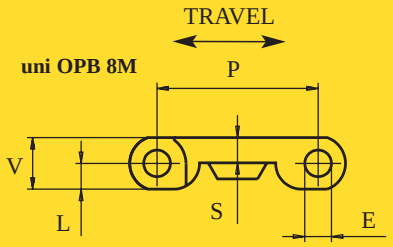
	uni OPB 4	uni OPB 8M	uni OPB 4V	uni OPB 8	uni OPB 8P
uni OPB C	X*	X	X*	X*	X
uni OPB C rough			X	X	
uni OPB 20%				X	
uni OPB 23%			X*		
uni OPB 23% fine-meshed			X		
uni OPB 25%				X*	
uni OPB 36%			X*		
uni OPB Rib 23%			X*		
uni OPB Vacuum	X		X		

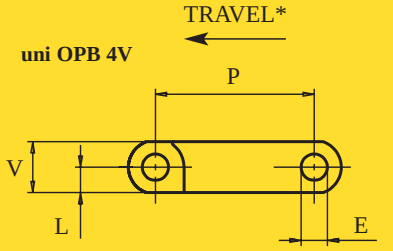
*** Note: These types are listed in the U.S.D.A "Accepted Meat and Poultry Equipment" publication as accepted for food contact.**

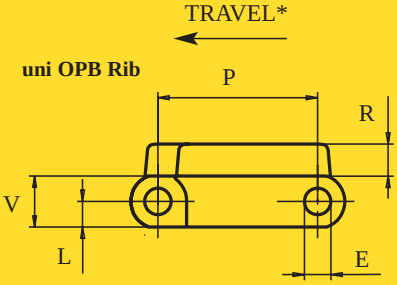
uni OPB











* uni-chains recommends this travel direction. However, travel in both directions is possible.

	mm	inch
E	8.3	0.33
L	8.0	0.31
P	50.0	1.97
R	10.0	0.93
S	7.8	0.31
T	4.0	0.16
V	16.0	0.31

Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch
151	5.9	503	19.8	905	35.6	1960	77.2
185	7.3	536	21.1	938	36.9	2111	83.1
268	10.6	570	22.4	988	38.9	2262	89.1
302	11.9	603	23.7	1022	40.2	2413	95.0
335	13.2	636	25.0	1055	41.5	2564	100.9
386	15.2	703	27.7	1206	47.5	2714	106.9
403	15.9	754	29.7	1357	53.4	2865	112.8
418	16.5	788	31.0	1508	59.4	3016	118.7
452	17.8	804	31.7	1659	65.3	3167	124.7
486	19.1	872	34.3	1810	71.2	3318	130.6

Belt widths for uni OPB in POM, PP and PE.

Please note the tolerance is 0.2% of the belt width.

For belt widths for 23% fine-meshed add 0.35% to above values.

Please note that if a special material is used, the widths might differ from the width shown in the table.
Belts wider than the mentioned can be assembled.

The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.

Max. recommended temperature for uni OPB Rib in PE is +40°C (+104°F). For higher temperatures uni-chains recommends PP or POM.

Permissible Tensile Strength

	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni OPB 8 and uni OPB 4V	22000	1507	11000	754	6600	452
uni OPB 4	11000	754	5500	377	3300	226
uni OPB 8P and uni OPB 8M	8900	610	8900	610	6600	452

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS and PP pins in POM and PP belts.
Load ratings for PE belts are with PE pins.

Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni OPB C/C rough/ vac.	11.7	2.40	18.3	3.75	7.5	1.54	14.0	2.87	8.1	1.66	14.6	2.99
uni OPB 20%/23%/25%	10.1	2.07	16.1	3.30	6.9	1.41	13.4	2.74	7.3	1.50	13.8	2.83
uni OPB 36%	9.5	1.95	15.3	3.13	6.3	1.29	12.8	2.62	6.7	1.37	13.2	2.70
uni OPB Rib	14.6	3.00	21.1	4.32	9.3	1.91	15.7	3.22	10.1	2.07	16.5	3.37

Standard Sprockets

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
6	100.0	3.94	94.5	3.72	65.0	2.56	ø 19.1	ø 0.75	2433OPBS06N
							sq 38.1	sq 1.50	2433OPBS06N15SQ
							sq 40.0	sq 1.57	2433OPBS06N40SQ
8	130.7	5.15	129.0	5.08	65.0	2.56	ø 19.1	ø 0.75	2433OPBS08N
							sq 38.1	sq 1.50	2433OPBS08N15SQ
							sq 40.0	sq 1.57	2433OPBS08N40SQ
10	161.8	6.37	160.1	6.30	65.0	2.56	ø 19.1	ø 0.75	2433OPBS10N
							sq 38.1	sq 1.50	2433OPBS10N15SQ
							sq 40.0	sq 1.57	2433OPBS10N40SQ
					120	4.72	ø 19.1	ø 0.75	2433OPBS10NBB
12	193.2	7.61	191.5	7.54	65.0	2.56	ø 19.1	ø 0.75	2433OPBS12N
							sq 38.1	sq 1.50	2433OPBS12N15SQ
					120.0	4.72	sq 40.0	sq 1.57	2433OPBS12N40SQBB

sq = Square bore.

Standard materials: Polyamide, stainless steel and carbon steel.
Split sprockets are available.
Square bore in steel sprockets and other teeth numbers are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width: 11.0 mm (0.43 inch).

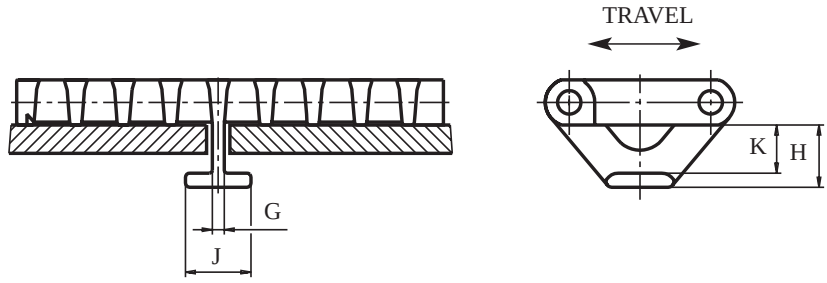
Please note: For uni OPB 8M and uni OPB 8P it is necessary to use special sprockets.

Standard Sprockets for uni OPB 8M and uni OPB 8P

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
6	100.0	3.94	89.1	3.51	65.0	2.56	ø 19.1	ø 0.75	2433OPBS06N8P
8	130.7	5.15	120.5	4.74	65.0	2.56	ø 19.1	ø 0.75	2433OPBS08N8P
10	161.8	6.37	153.0	6.02	65.0	2.56	ø 19.1	ø 0.75	2433OPBS10N8P
12	193.2	7.61	185.5	7.30	65.0	2.56	ø 19.1	ø 0.75	2433OPBS12N8P

Belt Specifications

Tabs

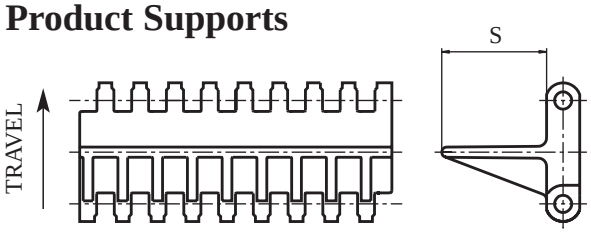


Standard material:

PP

Note: *When using a belt system with tabs, the temperature should be constant.*

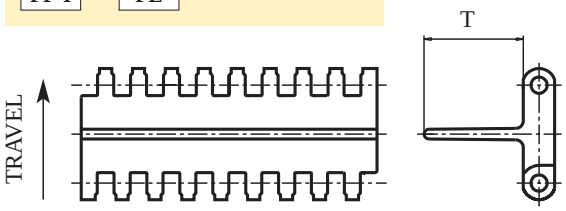
Product Supports



uni OPB product support with reinforcement ribs

Standard materials:

PP-I PE

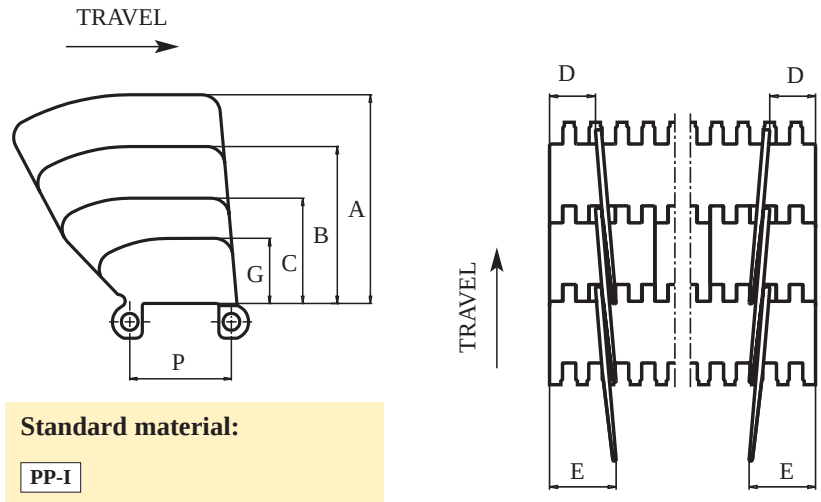


uni OPB product support without reinforcement ribs

Standard materials:

PP-I PP-I PE PE

Side Guards



Standard material:

PP-I

uni OPB Accessories

When the belt goes from horizontal to inclining travel it is an advantage to provide the belt with tabs in order to hold it down. The tabs can be placed in the entire width of the belt as required.

	mm	inch
G	4.2	0.17
H	22.0	0.87
J	23.2	0.92
K	17.0	0.67

If the products are separated into portions or are transported on inclined conveyors it is an advantage to use product supports.

uni OPB product supports without reinforcement ribs are also available in bent versions.
Please contact uni-chains for further information.

	mm	inch
S	50.7	2.00
S	76.1	3.00
S	101.5	4.00

	mm	inch
T	50.7	2.00
T	76.1	3.00
T	101.5	4.00
T	152.6	6.00

Side guards can be very suitable in many cases where they can secure that the products do not fall off the belt during operation.

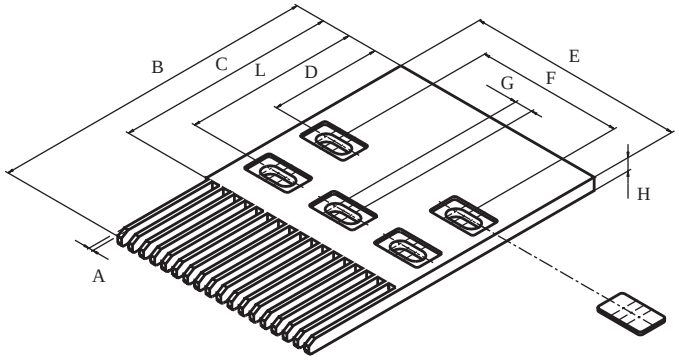
	mm	inch
A	102.6	4.04
B	77.2	3.04
C	51.8	2.04
D	29.0	1.14
E	42.0	1.65
G	38.1	1.50
P	50.0	1.97

A special side guard (160 mm (6.3 inch)) is also available. Please contact uni-chains for further information.

Belt Specifications

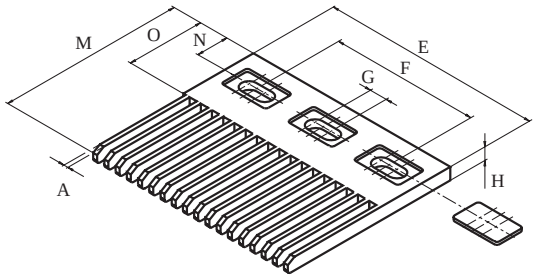
Finger Plates

Type 1A



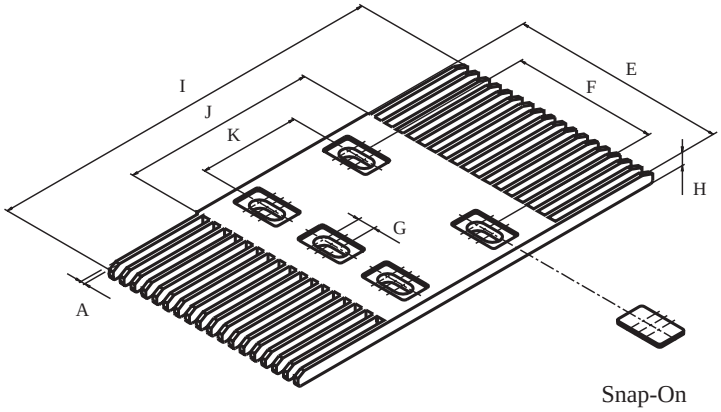
Snap-On
Cover Caps

Type 2



Snap-On
Cover Caps

Type 3



Snap-On
Cover Caps

Standard material:

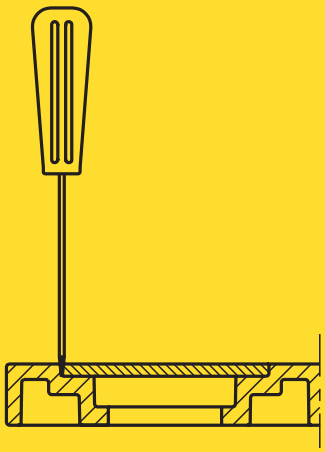
POM-D

uni OPB Accessories

All uni-chains belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

The finger plates can be installed with plastic screws.

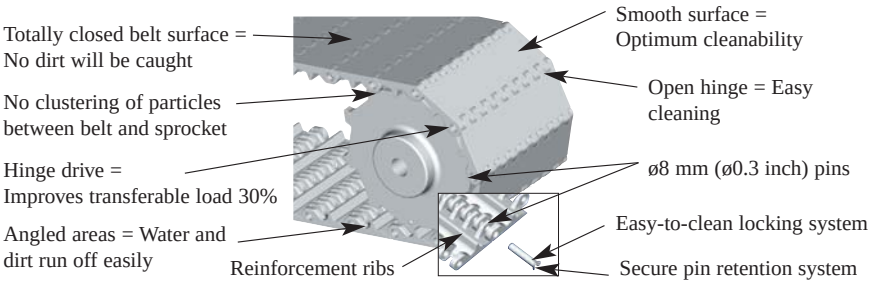
The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps can be removed by using a screwdriver that can be inserted between the cover and finger plate.



	mm	inch
A	2.8	0.11
B	220.0	8.66
C	150.0	5.91
D	75.0	2.95
E	149.0	5.87
F	100.0	3.94
G	12.0	0.47
H	9.0	0.35
I	259.0	10.20
J	120.0	4.72
K	60.0	2.36
L	119.0	4.69
M	123.0	4.84
N	22.0	0.87
O	53.0	2.09

Belt Specifications

The 50.8 mm (2.00 inch) pitch uni MPB is designed for hygienic and heavy duty transport in the food industry, mainly in the meat industry. The strength lies in the reinforced underside, the sprocket design and the ø8 mm (ø0.3 inch) pins locked with hygienic locks. The hinge and sprocket designs enable fast and effective cleaning and prevent particles from clustering between belt and sprockets. All planes are angled for water and dirt to run off easily. The smooth surface prevents the growth of bacteria.



uni MPB is available with 7 different surface designs: Closed, Grip top, Non Stick, 18%, 20%, 22% open and with rollers. The uni MPB Grip Top has a special grip surface for holding products on inclined conveyor sections.

uni MPB 22% open enables drainage and/or air flow in the food processing industry.

The uni MPB Closed is used for meat chopping and cutting operations. It has a smooth surface preventing dirt from getting caught between the hinges. A very smooth surface means optimum cleanability.

uni MPB

Pitch: 50.8 mm (2.00 inch)

Straight running

Backflex radius:
65 mm (2.6 inch)

Backflex radius with sideguards:
200 mm (7.9 inch)

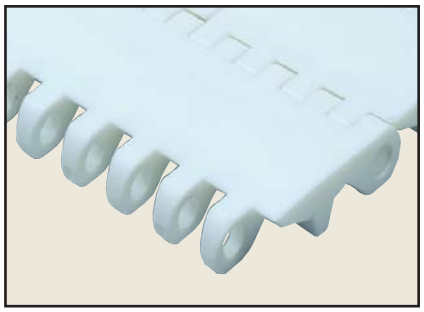
Locking type for uni MPB:
Hygienic locking system

Patents
GB2309062
U.S.: 6.332.531, 6.390.288

Surface opening:
Please see page 61

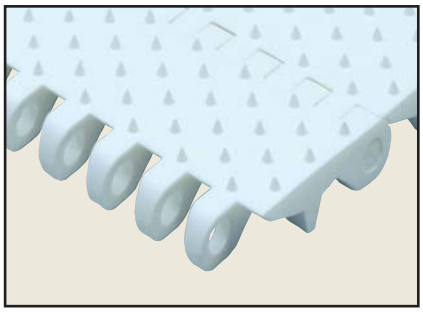
Industries and applications

Accumulation tables
Deboning lines
Deheading lines
Draining processes
Fish processing
General transport
Incline transport
Inspection/grading tables
Packaging conveyors
Poultry and meat processing
Transfers (breading, cooking, freezing, etc.)



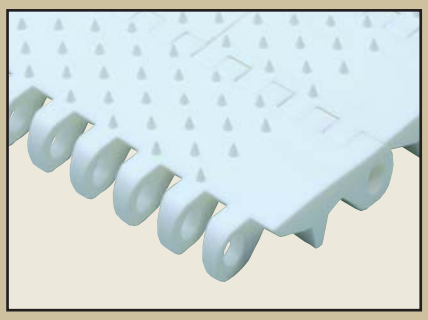
uni MPB: Closed top belt.

Standard materials:
POM-I **POM-I**
PP **PP** PE-I **PE-I**



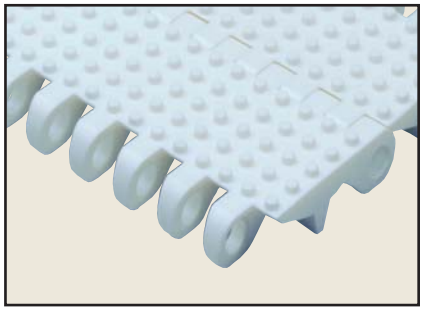
uni MPB-G: Grip surface.

Standard material:
POM-I



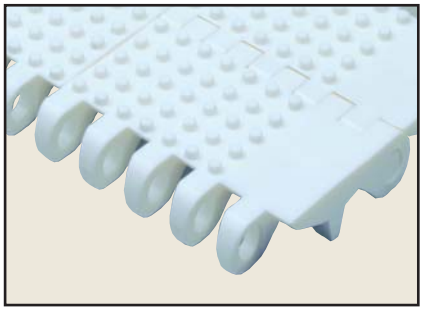
uni MPB-GE: Grip surface with indent 35 mm (1.4 inch).

Standard material:
POM-I



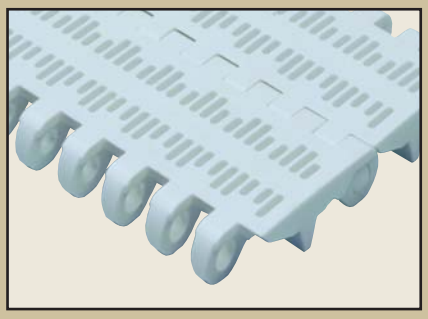
uni MPB-N: Non stick surface.

Standard material:
PE-I



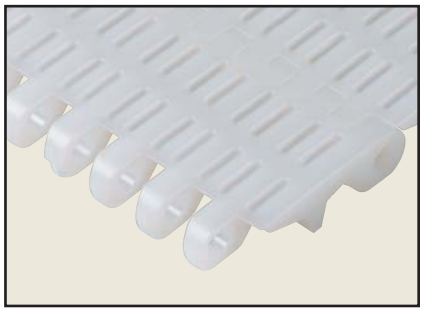
uni MPB-NE: Non stick surface with indent 35 mm (1.4 inch).

Standard material:
PE-I



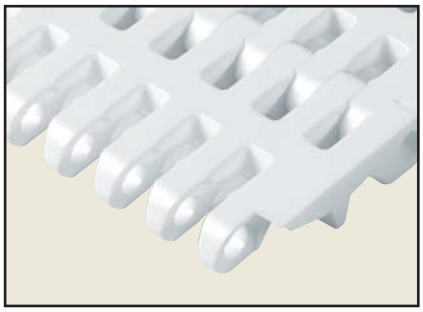
uni MPB 18%: Max. hole size is 2.0 x 11.5 mm (0.08 x 0.45 inch).

Standard materials:
POM-I **POM-I**
PP **PP** PE-I



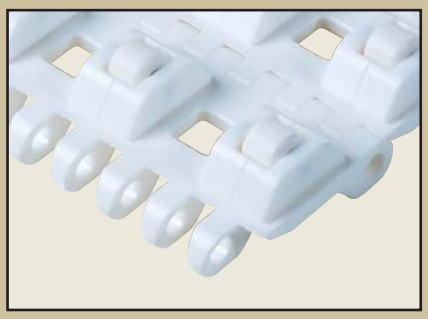
uni MPB 20%: Max. hole size is 2.5 x 15.0 mm (0.10 x 0.59 inch).

Standard material:
PE-I



uni MPB 22%: Max. hole size is 8.0 x 12.0 mm (0.31 x 0.47 inch).

Standard materials:
PE-I **PE-I**



uni MPB PRR: Up to 6 PRR kits per 6 inch module in travel direction or up to 3 PRR kits transversely.

Standard material:
POM-I

Belt Specifications

uni MPB standard programme:
See materials and colours on page 61.

Please note: All uni MPB belts in POM are supplied in a special impact resistant POM-I.

Please note: All uni MPB belts in PE are supplied in a special impact resistant PE-I.

uni MPB PRR: As standard the base link is supplied in POM and the rollers are supplied in white PA6, the roller bed in white POM and the roller pin in stainless steel.

Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS, PP and PE.

Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
151	5.9	637	25.1	1106	43.5	1608	63.3	2077	81.8
184	7.2	653	25.7	1156	45.5	1625	64.0	2110	83.1
200	7.9	704	27.7	1173	46.2	1658	65.3	2144	84.4
251	9.9	720	28.3	1206	47.5	1692	66.6	2161	85.1
268	10.6	754	29.7	1240	48.8	1709	67.3	2211	87.0
302	11.9	787	31.0	1256	49.4	1759	69.3	2228	87.7
335	13.2	804	31.7	1307	51.5	1776	69.9	2261	89.0
351	13.8	854	33.6	1323	52.1	1809	71.2	2295	90.4
402	15.8	871	34.3	1357	53.4	1842	72.5	2312	91.0
418	16.5	905	35.6	1390	54.7	1859	73.2	2362	93.0
452	17.8	938	36.9	1407	55.4	1909	75.2	2379	93.7
486	19.1	955	37.6	1457	57.4	1926	75.8	2412	95.0
503	19.8	1005	39.6	1474	58.0	1960	77.2	2446	96.3
553	21.8	1022	40.2	1507	59.3	1993	78.5	2462	96.9
569	22.4	1055	41.5	1541	60.7	2010	79.1	2512	98.9
603	23.7	1089	42.9	1558	61.3	2060	81.1	-	-

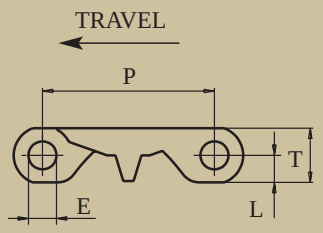
Belt widths for uni MPB in POM, PP and PE.

Please note that the values in the table are max. values.
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.
Please note that if special material is used, the width might differ from the widths shown in the table. Belts wider than mentioned in the table can be assembled.

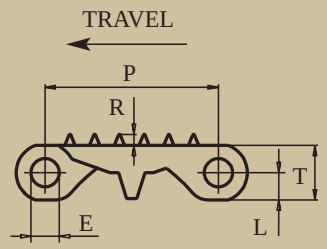
Permissible Tensile Strength

Belt material	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni MPB	27500	1884	16000	1096	13000	891

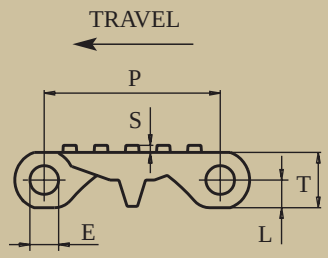
uni MPB



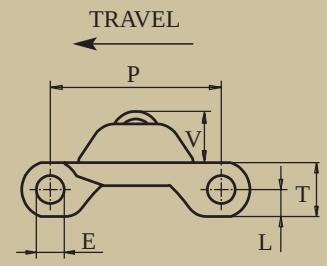
uni MPB, 18%, 20% and 22%



uni MPB-G



uni MPB-N



uni MPB PRR

	mm	inch
E	8.3	0.33
L	8.0	0.31
P	50.8	2.00
R	3.2	0.13
S	2.0	0.08
T	16.0	0.63
V	15.3	0.60

The values in the tables are for belts at +20°C (+68°F).
Please contact uni-chains for data at other temperatures.
Load ratings are the same for SS pins, PE and PP pins.

Belt Specifications

Max. Load per Sprocket

uni MPB	N	lbf
With snub roller	2000	450
Without snub roller	1250	281

Recommended minimum number of sprockets: 1 per 150 mm (6 inch) across shaft.
Contact uni-chains for details about use of snub rollers.

Max. Load per Roller

uni MPB PRR	N	lbf
Max. permissible static load	2000	450
Max. permissible dynamic load (accumulation)	300	68

Belt Weights

Belt material	POM		PP		PE	
Pin material	plastic		plastic		plastic	
	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
uni MPB/G/GE/N/NE	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB 18%	11.1	2.27	7.5	1.54	8.0	1.64
uni MPB 20%	11.2	2.29	7.4	1.52	7.9	1.62
uni MPB 22%	10.8	2.21	7.2	1.47	7.6	1.56
uni MPB PRR Base*	9.3	1.91	-	-	-	-

* For total belt weights add 0.011 kg (0.024 lb) x no. of roller kits

Standard Sprockets

No of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
6	101.6	4.00	99.5	3.92	65.0	2.56	ø 19.1	ø 0.75	1833MPB06N
							sq 38.1	sq 1.50	1833MPB06N15SQ
8	132.8	5.23	132.9	5.23	65.0	2.56	ø 19.1	ø 0.75	1833MPB08N
							sq 38.1	sq 1.50	1833MPB08N15SQ
							sq 40.0	sq 1.57	1833MPB0840SQ
10	164.4	6.47	165.8	6.53	65.0	2.56	ø 19.1	ø 0.75	1833MPB10N
							sq 38.1	sq 1.50	1833MPB10N15SQ
							sq 40.0	sq 1.57	1833MPB1040SQ
					120.0	4.72	ø 19.1	ø 0.75	1833MPB10NBB
							sq 38.1	sq 1.50	1833MPB10N15SQBB
							sq 50.8	sq 2.00	1833MPB10N2SQBB
							sq 63.5	sq 2.50	1833MPB10N25SQBB
							sq 40.0	sq 1.57	1833MPB10N40SQBB
							sq 60.0	sq 2.36	1833MPB10N60SQBB
12	196.3	7.73	198.6	7.82	120.0	4.72	ø 19.1	ø 0.75	1833MPB12NBB
							sq 38.1	sq 1.50	1833MPB12N15SQBB
							sq 50.8	sq 2.00	1833MPB12N2SQBB
							sq 63.5	sq 2.50	1833MPB12N25SQBB
							sq 40.0	sq 1.57	1833MPB12N40SQBB
							sq 60.0	sq 2.36	1833MPB12N60SQBB

sq = Square bore.
Standard material: Polyamide.

Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width: 10.0 mm (0.39 inch).

Belt Specifications

Product Supports

Bent Product Support

Standard materials:

PP-I | PE

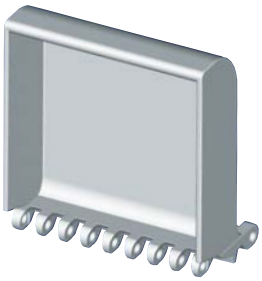
Standard Product Support S-types

Standard materials:

POM-D | POM-D | PP-I | PP-I

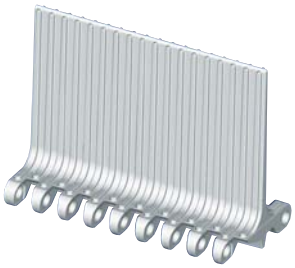
PE | PE

Cupped Product Support



Moulded to order

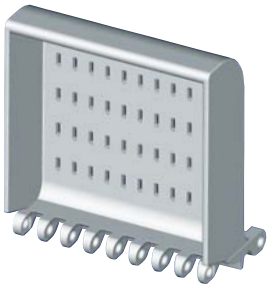
No Cling Product Support NC-types



Standard materials:

PP-I | PP-I | PE

Cupped Perforated Product Support



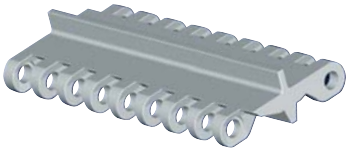
Moulded to order

No Cling Product Support with drain

Standard materials:

PP-I | PE

Micro Product Support M-types



Standard material:

PE

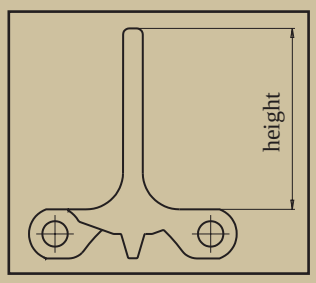
Micro Product Support 22%

Standard material:

PE

uni MPB Accessories

If the products are separated into portions or are transported on inclined conveyors it is an advantage to use product supports.



Bent, Cupped and Perforated Product Supports

Height	
mm	inch
76.2	3.00
101.5	4.00
152.6	6.00

Standard Product Support S-types

Height	
mm	inch
25.4	1.00
50.7	2.00
76.2	3.00
101.5	4.00
152.6	6.00

No Cling Product Support

Height	
mm	inch
50.7	2.00*
76.2	3.00
101.5	4.00

* Only available with drain.

Micro Product Support M-types

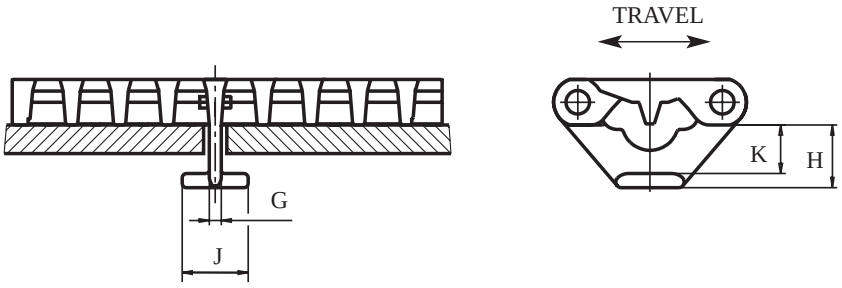
Height	
mm	inch
5.0	0.20
10.0	0.39

Micro Product Support 22%

Height	
mm	inch
3.0	0.12

Belt Specifications

Tabs

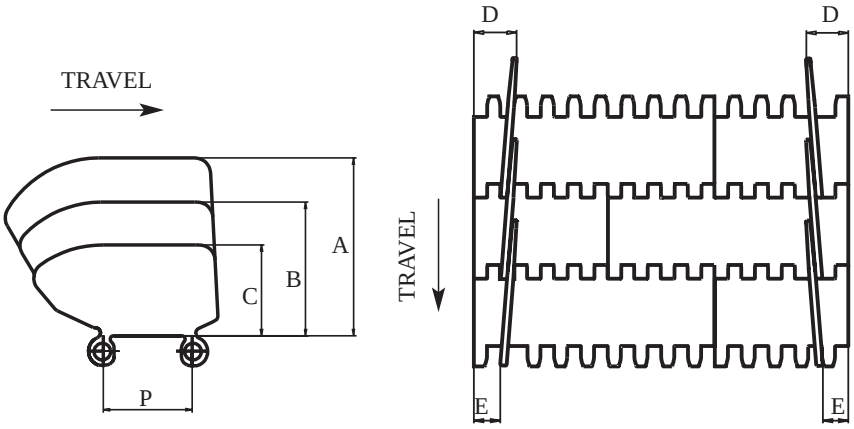


Standard material:

POM-D

Note: *When using a belt system with tabs, the temperature should be constant.*

Side Guards



Standard material:

PP-I

uni MPB Accessories

When the belt goes from horizontal to inclining travel it is an advantage to provide the belt with tabs in order to hold it down. The tabs can be placed in the entire width of the belt as required.

	mm	inch
G	4.2	0.17
H	22.0	0.87
J	23.2	0.91
K	17.0	0.67

Side guards can be very suitable in many cases where they can secure that the products do not fall off the belt during operation.

Note: *Backflex radius when side guards are used: 200 mm (7.9 inch).*

	mm	inch
A	101.7	4.00
B	76.4	3.00
C	50.9	2.00
D	32.0	1.26
E	16.0	0.63
P	50.8	2.00

Belt Specifications

uni Flex SNB, the 25.4 mm (1.00 inch) pitch side flexing modular belt.
uni Flex SNB can flex in all directions allowing it to be used in countless different applications. The many accessories such as product supports, rubber supports and side guards as well as numerous belt tracking and control systems give uni Flex SNB an outstanding versatility.

The “closed” version for hygienic transport.

uni Flex SNB-W with reinforcement links and rubber supports.

Conveying shrink-wrapped products.

uni Flex SNB

Pitch: 25.4 mm (1.00 inch)

Side flexing

Backflex radius: 50 mm (2.0 inch)

Locking types for uni Flex SNB:
Lockingplate
Wearpart lock
Pinlock

Surface opening:
Please see page 67

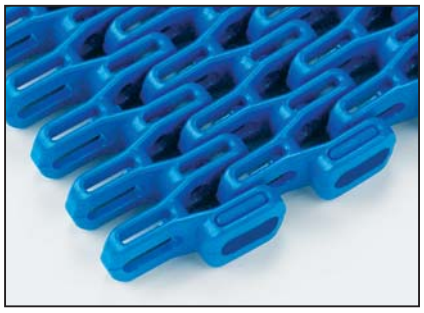
Patents
U.S.: 5.379.883, 6.073.756, 6.216.854

Further patents pending

Applications

Breweries
Food processing
Various manufacturing plants

Please contact us to get our special uni Flex SNB documentation.
See contact nos. on the back.

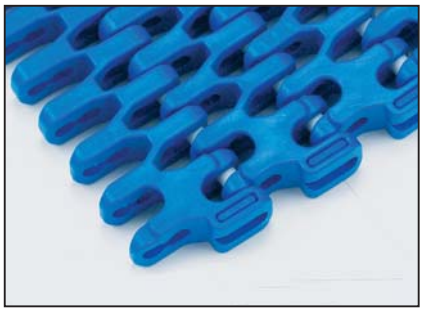


uni Flex SNB-L: Standard radius.
Min. inside radius 2.3 x belt width,
55% open area for max. airflow/
cooling.

Standard materials:

POM-D | POM-D

PP | PP



uni Flex SNB-CR: Tight radius.
Min. inside radius from 1.5 x belt
width.
47% open hygienic solid grid surface.

Standard materials:

POM-D | POM-D

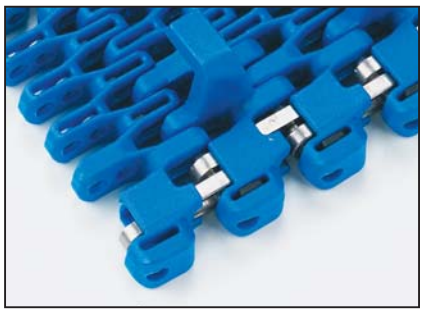
PP | PP

uni Flex SNB-W: Standard radius
fitted with reinforcement links and
steel pins.
Integral moulded edge wearpart.

Standard materials:

POM-D | POM-D

PP | PP | PA6.6 | PA6.6



uni Flex SNB-WT: Standard radius
fitted with reinforcement links and
steel pins.
Integral moulded edge wearpart.
Integral underside tab (S-Tab.)

Standard materials:

POM-D | POM-D

PP | PP | PA6.6 | PA6.6

uni Flex SNB-WO: Standard radius
fitted with reinforcement links and
steel pins.
Integral outer edge tab system.
Transports products wider than
the belt.

Standard materials:

POM-D | POM-D

PP | PP | PA6.6 | PA6.6

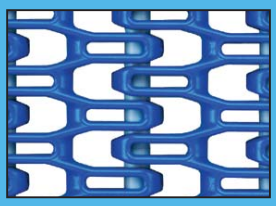
uni Flex SNB Programme

Refer to this diagram for the material combinations, surface openings and turning radii of the five different uni Flex SNB types.

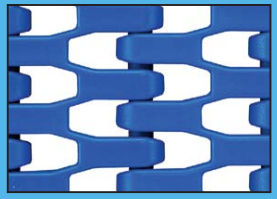
Belt type	Material	Hinge design	Flex ratio
uni Flex SNB-L	all plastic	open hinge	2.3
uni Flex SNB-CR	all plastic	closed hinge	1.5*
uni Flex SNB-W	plastic/steel	open hinge	2.3
uni Flex SNB-WT	plastic/steel	open hinge	2.3
uni Flex SNB-WO	plastic/steel	open hinge	2.3

Inner curve radius = Flex ratio x belt width.

* For widths W ≤ 229 mm (9.0 inch), when W > 229 mm (9.0 inch) flex radius is 1.6 x W-18 mm (0.7 inch).



uni Flex SNB
Open hinge
(55% open area)



uni Flex SNB
Closed hinge
(47% open area)

Belt Specifications

uni Flex SNB standard programme:
See materials and colours on page 67

Standard pin materials: PA6.6, PP, AISI 304 SS or AISI 316 SS (acid resistant)

Standard Belt Widths for uni Flex SNB-L (W_L)

mm	inch	mm	inch
76	3.0	608	23.9
152	5.9	684	26.9
228	9.0	760	29.9
304	12.0	836	32.9
379	14.9	912	35.9
456	18.0	988	38.9
532	20.9	1065	41.9

Non standard cut widths are possible in multiples of 12.7 mm (0.50 inch).

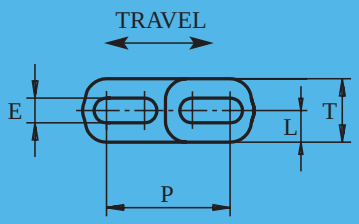
To find the belt widths for other uni Flex SNB tracking systems and belt types use formulas below.

uni Flex SNB-CR:
$W = W_L$

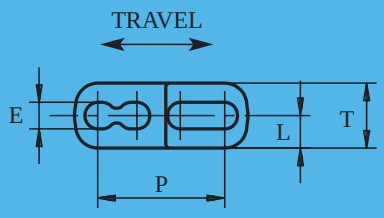
uni Flex SNB-L or CR with wearpart:
$W = W_L + 2 \times 3$ mm (0.1 inch)

uni Flex SNB-L or CR with O-Tab:
$W = W_L + 2 \times 3$ mm (0.1 inch)

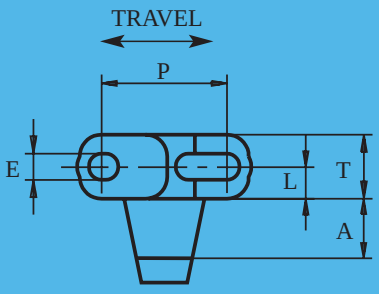
uni Flex SNB-W, WO or WT:
$W = W_L + 2 \times 3$ mm (0.1 inch)



uni Flex SNB-L, W, WO



uni Flex CR



uni Flex SNB-WT

	mm	inch
A	12.0	0.48
E	5.1	0.20
L	6.5	0.26
P	25.4	1.00
T	13.0	0.51

Belt Specifications

Max. Permissible Load in Curve

	Belt material	POM-D/PA6.6		PP		PE	
	Pin material	N	lbf	N	lbf	N	lbf
uni Flex SNB-L/CR	PP, PE or SS	600	135	600	135	400	90
uni Flex SNB-L/CR	PA6.6	1000	225	600	135	400	90

Max. Permissible Load in Curve

	Belt material	POM-D/PA6.6		PP		PE	
	Pin material	N	lbf	N	lbf	N	lbf
uni Flex SNB-W/WO/WT	PP or PE	600	135	600	135	400	90
uni Flex SNB-W/WO/WT	PA6.6	1000	225	600	135	400	90
uni Flex SNB-W/WO/WT	SS + rl*	3300	742	3300	742	3300	742

* rl = Reinforcement links

Max. Permissible Load on Straight Sections

Belt material	POM-D or PA6.6		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni Flex SNB-L/CR/W/WO/WT	30000	2055	15000	1028	9000	617

The values in the tables are for belts at +20°C (+68°F).
For relations between speed and load refer to uni Flex SNB technical manual or contact uni-chains.

Belt Weights for uni Flex SNB-L

Belt material	POM-D		PP		PE		PA6.6	
Pin material	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
PP	6.7	1.37	4.6	0.94	4.8	0.98	5.6	1.15
PA6	6.9	1.41	4.8	0.98	5.0	1.02	5.8	1.19
SS	12.1	2.48	10.0	2.05	10.2	2.09	11.0	2.25

Belt Weights for uni Flex SNB-CR

Belt material	POM-D		PP		PE		PA6.6	
Pin material	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
PP	7.5	1.54	5.2	1.07	5.3	1.09	6.2	1.27
PA6	7.7	1.58	5.4	1.11	5.5	1.13	6.4	1.31
SS	12.9	2.64	10.2	2.09	10.7	2.19	11.6	2.38

Belt Weights for uni Flex SNB-W

Belt material	POM-D		PP		PE		PA6.6	
Pin material	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
PP	7.1	1.45	4.9	1.00	5.0	1.02	5.8	1.19
PA6	7.3	1.50	5.1	1.04	5.2	1.07	6.0	1.23
SS	12.5	2.56	10.3	2.11	10.4	2.13	11.2	2.29

Belt Weights for uni Flex SNB-WO

Belt material	POM-D		PP		PE		PA6.6	
Pin material	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
PP	7.3	1.52	5.1	1.04	5.2	1.07	6.1	1.25
PA6	7.5	1.54	5.3	1.09	5.4	1.11	6.2	1.27
SS	12.7	2.60	10.5	2.15	10.6	2.17	11.4	2.34

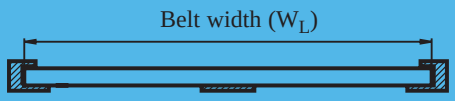
Belt Weights for uni Flex SNB-WT

Belt material	POM-D		PP		PE		PA6.6	
Pin material	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2	kg/m^2	lb/ft^2
PP	7.4	1.52	5.1	1.04	5.2	1.07	6.1	1.25
PA6	7.6	1.56	5.3	1.09	5.4	1.11	6.3	1.29
SS	12.8	2.62	10.5	2.15	10.6	2.17	11.5	2.36

Belt Specifications

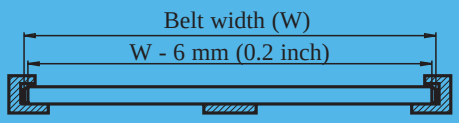
uni Flex SNB-L (Standard)

Basic belt types can be combined with the belt tracking and control systems below to enhance performance.



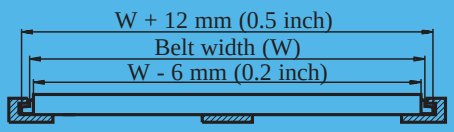
Wearpart

Wearpart system made of heat and wear resistant nylon to reduce the friction between belt edge and wearstrip. Only this part needs to be replaced when it has been worn out, not the whole belt.



O-Tab

Outer edge tab system made of heat and wear resistant nylon to reduce the friction between belt edge and wear-strip. Using a slotted wearstrip the O-tab will track the belt and allow the transported products to be wider than the belt.

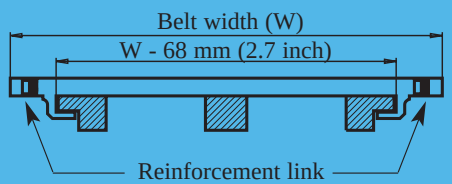


I-Tab

Intermediate tabs are placed on the bottom side of the belt to hold the belt down on incline conveyors.
The intermediate tabs will fit anywhere across the belt bottom and at pitch multiples of 12.7 mm (0.50 inch).

S-Tab

Side tab for holding the belt down, normally used for wide belts. With S-Tabs the radial forces in the curve are transferred to the outside radius (uni Flex SNB-WT).



In below diagram you will find the options for tracking the different types of uni Flex SNB.

Belt type	Belt tracking and control combinations			
	Wear-part	O-Tab	S-Tab	I-Tab
uni Flex SNB-L	+	+	-	+
uni Flex SNB-CR	+	+	-	-
uni Flex SNB-W	✔	-	-	+
uni Flex SNB-WT	-	-	✔	+
uni Flex SNB-WO	-	✔	-	+

✔ Standard + Optional - Not possible

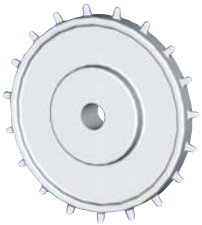
Standard Sprockets

No. of teeth	pitch diameter mm	pitch diameter inch	overall diameter mm	overall diameter inch	hub diameter mm	hub diameter inch	bore mm	bore inch	reference no. one-part	reference no. two-part double row
9	74.3	2.93	73.8	2.91	56.8	2.24	ø 19.1	ø 0.75	2133FSNB09N	-
							sq 25.4	sq 1.00	2133FSNB09N10SQ	-
							sq 30.0	sq 1.18	2133FSNB09N30SQ	-
10	82.2	3.24	82.2	3.24	65.2	2.57	ø 19.1	ø 0.75	2133FSNB10N	-
							sq 25.4	sq 1.00	2133FSNB10N10SQ	-
							sq 30.0	sq 1.18	2133FSNB10N30SQ	-
12	98.2	3.87	98.8	3.89	70.0	2.76	ø 19.1	ø 0.75	2133FSNB12N	-
							sq 25.4	sq 1.00	2133FSNB12N10SQ	-
							sq 38.1	sq 1.50	2133FSNB12N15SQ	-
							sq 40.0	sq 1.57	2133FSNB12N40SQ	-
15	122.2	4.81	123.5	4.86	70.0	2.76	ø 19.1	ø 0.75	2133FSNB15N	-
							sq 25.4	sq 1.00	2133FSNB15N10SQ	-
							sq 38.1	sq 1.50	2133FSNB15N15SQ	-
							sq 40.0	sq 1.57	2133FSNB15N40SQ	-
					96.0	3.78	sq 60.0	sq 2.36	2133FSNB15N60SQBB	-
							sq 63.5	sq 2.50	2133FSNB15N25SQBB	-
18	146.3	5.76	146.1	5.75	70.0	2.76	ø 19.1	ø 0.75	2133FSNB18N	-
							sq 25.4	sq 1.00	2133FSNB18N10SQ	-
							sq 38.1	sq 1.50	2133FSNB18N15SQ	-
							sq 40.0	sq 1.57	2133FSNB18N40SQ	-
					96.0	3.78	sq 60.0	sq 2.36	2133FSNB18N60SQBB	-
							sq 63.5	sq 2.50	2133FSNB18N25SQBB	-
					40.0	1.57	ø 19.1	ø 0.75	-	2133FSNB18NT
					50.0	1.97	ø25.0	ø 0.98	-	2133FSNB18NT25
					60.0	2.36	ø 30.0	ø 1.18	-	2133FSNB18NT30
					-	-	sq 38.1	sq 1.50	-	2133FSNB18NT15SQ
							sq 40.0	sq 1.57	-	2133FSNB18NT40SQ
							sq 60.0	sq 2.36	-	2133FSNB18NT60SQ
19	154.3	6.07	156.2	6.15	70.0	2.76	ø 19.1	ø 0.75	2133FSNB19N	-
							sq 25.4	sq 1.00	2133FSNB19N10SQ	-
							sq 38.1	sq 1.50	2133FSNB19N15SQ	-
							sq 40.0	sq 1.57	2133FSNB19N40SQ	-
					96.0	3.78	sq 60.0	sq 2.36	2133FSNB19N60SQBB	-
							sq 63.5	sq 2.50	2133FSNB19N25SQBB	-
					40.0	1.57	ø 19.1	ø 0.75	-	2133FSNB19NT
					50.0	1.97	ø 25.0	ø 0.98	-	2133FSNB19NT25
					60.0	2.36	ø 30.0	ø 1.18	-	2133FSNB19NT30
					-	-	sq 38.1	sq 1.50	-	2133FSNB19NT15SQ
							sq 40.0	sq 1.57	-	2133FSNB19NT40SQ
							sq 60.0	sq 2.36	-	2133FSNB19NT60SQ

sq = Square bore.

Standard material: Polyamide.
Other sprocket sizes are available upon request.
Please contact uni-chains for further information.

One-part sprockets
Width of sprockets: 25.0 mm (0.98 inch).
Tooth width: 6.4 mm (0.25 inch).

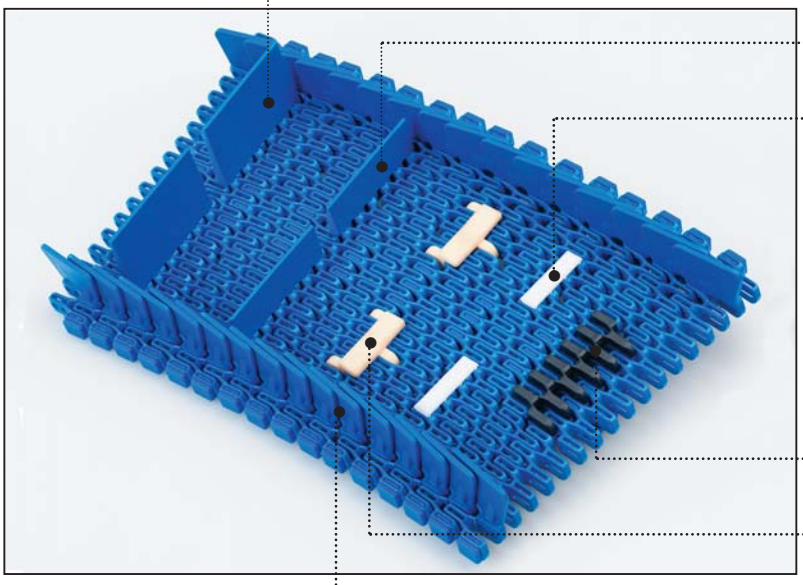


One-part sprockets

Two-part sprockets
Width of two-part sprockets: 50.8 mm (2.00 inch).
For heavy wear applications one-part sprockets or the toothed rim for two-part sprockets can be supplied in stainless steel.

Two-part double row sprockets

Belt Specifications



Rubber Supports
Rubber supports are 4 mm (0.2 inch) high with a width of 43 mm (1.7 inch) and a length of 14 mm (0.6 inch).

Side Guards 30 mm (1.2 inch) high
Used to prevent the products from falling off the belt.

Product Supports 25 mm (1.0 inch) and 51 mm (2.0 inch) high
These product supports have a width of 76 mm (3.0 inch). They can be placed in a line over the total width of the belt.

Product Support low
A 4 mm (0.2 inch) high POM support with a width of 42 mm (1.7 inch) and a length of 10.5 mm (0.41 inch).

Note: *Side guards and product supports cannot be mounted in the CR type, but can be incorporated on standard radius systems using uni Flex SNB-L links.*

Rubber Tops
Used to prevent products sliding on inclined conveyor sections. High friction rubber pads 3 mm (0.1 inch) tall are moulded directly onto the top surface of standard 76 mm (3.0 inch) and 152 mm (6.0 inch) wide polypropylene links.

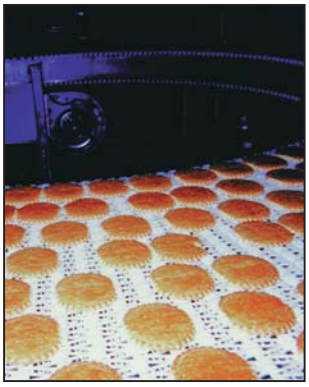
Belt type	Belt top accessories			
	Rubber top	Rubber supports	Side guards	Product supports
uni Flex SNB-L	+	+	+	+
uni Flex SNB-CR	+ *	+	-	-
uni Flex SNB-W	+ *	+	+	+
uni Flex SNB-WT	+ *	+	+	+
uni Flex SNB-WO	+ *	+	+	+

\+ Optional - Not possible

* Minimum indent from the side of the belt 38 mm (1.5 inch). For build patterns please contact uni-chains.

Belt Specifications

uni Flex Belt is a side flexing belt. A wide surface opening of 75% ensures an optimum flow of air or water through the belt.



uni Flex Belt

Pitch: 50.0 mm (1.97 inch)

Side flexing

Backflex radius, tab:
125 mm (4.9 inch)

Backflex radius, tab and side guards:
140 mm (5.5 inch)

Locking type for uni Flex Belt:
uni Flex Belt endlock

Surface opening: 75%

Please note:
uni Flex Belt can be supplied with reinforcement links

Industries and applications

Bakeries
Dairies
Fruit and vegetable
Pasta
Snack food

Belt Specifications

Standard material:

POM-D

Other available materials: See page 9 and 10

Standard pin materials: AISI 304 SS

Standard Belt Widths

mm	inch	mm	inch
417	16.4	1222	48.1
618	24.3	1434	56.5
819	32.2	1625	64.0
1021	40.2	1827	71.9

Other widths can be supplied upon request. For further details, please, contact uni-chains. All dimensions are subject to changes.

Permissible Tensile Strength

	N	lbf
uni Flex Belt	1000	225
uni Flex Belt with reinforcement links	2500	562

Belt Weights

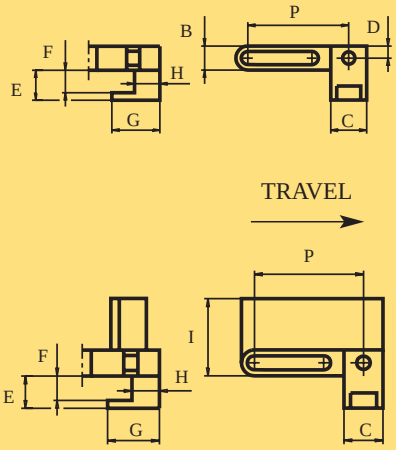
	kg/m^2	lb/ft^2
uni Flex Belt with tab	8.7	1.78
uni Flex Belt with tab and side guards	9.4	1.93

Standard Sprockets

No. of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no.
	mm	inch	mm	inch	mm	inch	mm	inch	plastic
11	179.2	7.06	184.0	7.24	45.0	1.77	30.0	1.18	2733FB11A

Width of sprockets: 42.3 mm (1.67 inch).
Tooth width: 7 mm (0.28 inch).

uni Flex Belt



	mm	inch
B	11.5	0.45
C	18.0	0.71
D	5.75	0.23
E	15.0	0.59
F	11.3	0.44
G	24.0	0.94
H	12.7	0.50
I	35.7	1.41
P min.	50.0	1.97
P max.	50.4	1.98

Center radius for uni Flex Belt and uni Flex Belt with tab and side guards: Min. 2.2 x belt width.

Reinforcement of Belt Systems

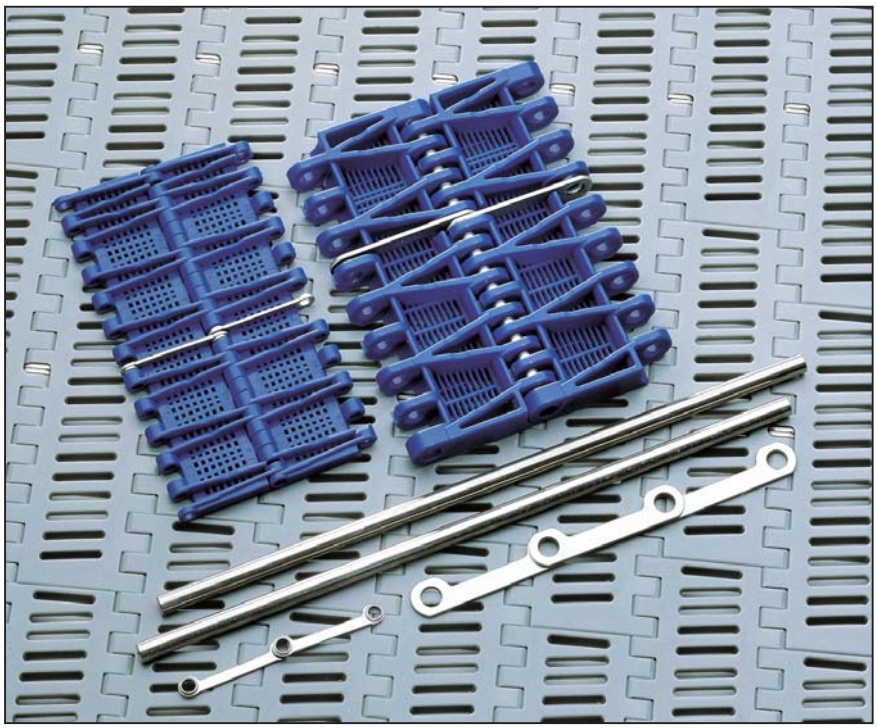
By including reinforcement links it is possible to:

- reduce elongation caused by temperature changes.

- reduce the permanent elongation which occurs in all belts.

Use of stainless steel pins is required for construction with reinforcement links.

Reinforcement links are available in stainless steel and acid resistant stainless steel.



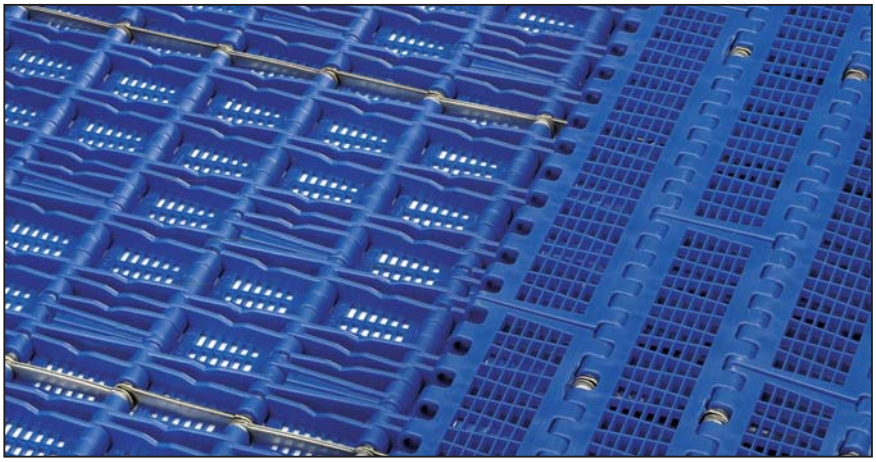
Belts, pins and reinforcement links

Reinforcement links can be used with the following belt systems:

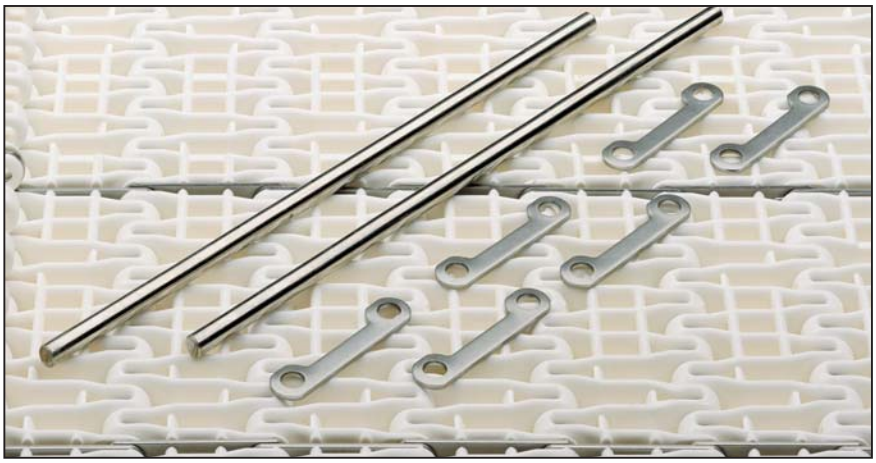
uni OPB
uni Light EP
uni L-SNB
uni Flex SNB
uni Flex Belt

Reinforcement and Pitch Control of Belt Systems

Reinforced uni OPB



Reinforced uni Light EP



Reinforced uni L-SNB

On long conveyors used in applications with high temperature variations changes in the length of the plastic modular belt calls for large take-up systems.

uni-chains can offer a solution that reduces the change in the belt length to only 10% of traditional modular plastic belts. If steel pins and the uni stainless steel reinforcement links are installed in the belt the demands of the take-up system will be reduced.

It is optional for the the following belt systems:
- uni Light EP
- uni OPB
- uni L-SNB

Load Capacity per Reinforcement Link

	N/pcs	lbf/pcs
uni Light EP	1000	225
uni OPB & uni L-SNB	2500	247

uni-chains recommends max. 3 reinforcement links per module (152 mm (6.0 inch)) for uni OPB and uni Light EP.

For uni L-SNB it is recommended to use max. 3 reinforcement links per 2 modules (304 mm (12.0 inch)).

Disclaimer

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uni-chains is not responsible for any property damage or personal injury, direct or indirect damage from failure or down time in production caused by improper equipment construction. uni-chains cannot be held responsible for the incorrect application, operation and/or abuse of our products.
uni-chains does not guarantee that the design and/or operational function of any equipment that incorporates uni-chains products, conforms to local, state, and/or federal regulations. Nor does uni-chains warrant that standards relating to safety aspects such as public and worker safety, safety guards, fire and sanitation safety, or any other safety regulations are met by such equipment or products.

All users should read our **"Warnings"** and **"Design Safety Guidelines"** before using our products.

Warnings

Fire

uni-chains plastic products are, unless clearly specified, made from materials which support open flame.
Products made from POM material (D, I, LF and SLF), when so exposed, will emit toxic fumes. uni-chains plastic products should therefore not be exposed to extreme temperatures or open flame. Special care should be taken when undertaking repair work particularly when welding at a conveyor if the conveyor is fitted with plastic chains or belts.

Personal Protection

Always use safety glasses when mounting or repairing chains and belts and while securing or removing pins.
Use only suitable tools in good condition.
The weight of some products calls for the use of safety shoes.
When installing/removing or repairing chains or belts on a conveyor, the motor must be turned off.

Design Safety Guidelines

Most plastic products will lose their mechanical properties if exposed to the sun or ultra violet beams, which can lead to chain or belt breakage. This can also happen if the products are exposed to strong chemicals. Generally, this is a problem with pH values lower than 4.5 or higher than 9.
Always make sure that there is enough space in the conveyor frame to allow chains and belts to retract or expand when exposed to temperature variations.
Never exceed the maximum or minimum temperatures given by uni-chains.
Note: The different materials have different temperature limits.

Care should be taken with high chain/belt speeds with which friction can lead to heating and subsequently melting of chain/belt as well as wearstrips. Do not exceed speeds recommended by uni-chains.

Use only original uni-chains sprockets with uni-chains belts and chains.

When constructing conveyors it is important to always include sufficient cover around the moving parts to prevent fingers and clothing from being caught in the machinery. uni-chains can also supply safety chains and side flexing belts which leave minimal gaps when turning through curves making them incredibly safe.

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