Ammeraal Beltech
Innovation & Service in Belting

Plastic Modular

Belt Catalog

Innovative belt solutions for every industry & application

uni chains *The brand for plastic modular belts*

2011

Plastic Modular Belt Catalog

Innovative belt solutions for every industry & application

Contents

Contents

Standard

- Sideflexing both directions
- Sideflexing one travel direction
- Straight running both directions
- Straight running one travel direction
- Patent pending or patented
- Pin diameter
- Pitch
- Materials
- Backflex radius
- Sprockets
- Two-part sprockets
- Retainer ring
- Rubber inserts
- Idler
- Pin
- Lockpin
- Solid lockpin
- Snap Pin A1
- Snap Pin A2
- G-lock
- Rodlock
- Trilock
- Endlock
- AmFlight

Accessories

- Tab
- Product support
- Finger plate
- Side guard
- Reinforcement link
- Lane divider

Standard and alternative Belt Colors

B Blue	G Grey	O Orange
BR Brown	K Black	P Purple
D Red	LG Light Grey	T Tan (Beige)
DG Dark Grey	I Ivory	W White
E Green	N Natural	Y Yellow
DD Dark Red	DB Dark Blue	LB Light Blue

uni Belt Material Selection

Material grades	Temperature °C	Temperature °F	Load/ permissible load index	FDA
POM - Polyoxymethylen (POM-D/DI/LF/SLF/NL/S/SX/NL)	-40 to +90	-40 to +194	100% POM	✔
POM-DK - Polyoxymethylen	-40 to +90	-40 to +194	100% POM	-
POM-DAS/NLAS - Semi conductive materials	-40 to +90	-40 to +194	100% POM	-
POM-EC - Electrical conductive materials	-40 to +90	-40 to +194	50% POM	-
PP - Polypropylene[1/]	+1 to +104	+34 to +219	100% PP	✔
PP-I - Polypropylene	-10 to +80	+14 to +176	80% PP	✔
PP-MI - Metal detectable polypropylene	-10 to +80	+14 to +176	70% PP	✔
PP-HW - Hot water polypropylene	+1 to +104	+34 to +219	100% PP	✔
PP-AR - Glass reinforced polypropylene	+1 to +80	+33 to +176	50% POM	-
PE - Polyethylene	-50 to +80	-58 to +176	100% PE	✔
PE-I - Polyethylene	-50 to +80	-58 to +176	80% PE	✔
PE-MI - Metal detectable polyethylene	-50 to +80	-58 to +176	80% PE	✔
PBT-GR - Glass reinforced polyester[2/]	-40 to +125	-40 to +257	70% POM	-
PBT - Polyester[2/]	-40 to +100	-40 to +212	-	✔
PVDF - Polyvinylidenfluoride	-40 to +100	-40 to +212	100% POM	✔
PA6-FR - Flame retardant polyamide	+1 to +104	+34 to +219	90% POM	-
PA6 - Polyamide	-40 to +120	-40 to +248	100% POM	✔
PA6-GF - Polyamide glass reinforced	-40 to +120	-40 to +248	100% POM	-
PA6.6 - Polyamide	-40 to +140	-40 to +284	100% POM	✔
PA6.6-H - Polyamide	-40 to +160	-40 to +320	100% POM	-
PA6.6-GFH - Polyamide	-40 to +180	-40 to +356	100% POM	✔

Please, note that the temperature has an effect on the mechanical properties of the belts.

1/ *Avoid impact below +8°C (+46°F). Dry. In wet and hot applications use PP-HW.*
2/ *Max. temperature in water +60°C (+140°F).*

uni Belt Material Selection

POM

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

POM-D

B BR D DG E G K N
O P T W Y

POM polymers with self-lubricating components.

POM-DI

B BR D DG E G K N
O P T W Y

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

uni Belt Material Selection

POM-DK

O K

POM-DK is a reinforced POM polymer designed for applications where high wear resistance is needed and/or high conveyor speeds are required. The material is typically used for wear parts on sideflexing belts or in applications where very high wear resistance is required.

POM-LF

B BR D DG E G K N
O P T W Y

POM polymers with improved self-lubricating components.

POM-SLF

B BR D DG E G K N
O P T W Y

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

POM-NL

B BR D DG E G K N
O P T W Y

POM polymers with no lubricant suitable for applications where you want to ensure that no lubricant may affect the product adhesion or the like. uni-chains standard POM-NL holds a surface resistivity of minimum 1 x 10^{14} Ohm according to IEC 60093/ASTM D257.

POM-DAS

K Y

Semi conductive POM with self-lubricating components is used in applications where you want to avoid build-up of static electricity. POM-DAS is normally used for manrider belts to avoid discomfort; it can also be used in applications where you want to avoid products (such as thin plastic foils) "sticking" to the belt/chain. uni-chains standard POM-DAS holds a surface resistivity of 1 x 10^{11} Ohm according to IEC 60093/ASTM D257.

POM-NLAS

K Y

POM polymers contain no lubricant but do contain additives that reduce the electrical resistance and helps to dissipate static electricity. POM-NLAS holds a surface resistivity of 1 x 10^{11} Ohm according to IEC 60093/ASTM D257.

POM-S

B BR D DG E G K N
O P T W Y

POM polymers contain low noise components, mainly used for the new uni Snap Link® without pins.

POM-SX

W B

POM polymers with self-lubricating components. POM-SX will be the right solution where lower friction, higher load and lower noise compared to standard POM are requested. POM-SX will mainly be used for high load capacity uni Snap Link® without pins.

Please note that uni Flex ONE in POM-SX blue is not according to the standard color quality for blue. Small variations may occur.

POM-EC

K

Electrical conductive POM is normally used in explosive areas where sparks and static must be avoided, such as areas with filling aerosol, camping gas, or the like.
uni-chains standard EC holds a surface resistivity of 1 x 10^{6} Ohm according to IEC 60093/ASTM D257.

uni Belt Material Selection

PP

B D E G K N O P T W Y

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

PP-I

B D E G K N O P T W Y

Polypropylene with improved impact resistance and improved properties at low temperatures. Use of PP-I in hot water should be avoided.

PP-MI

DB DD

PP-MI is a metal detectable polypropylene with improved impact resistance to allow detection with both metal detectors and X-ray machines in case of belt breakage. PP-MI is used to increase safety in food processing equipment which will allow the user to detect if pieces of plastic from upstream conveyors have contaminated the conveyed product.

PP-HW

B D E G K N O P T W Y LB

PP-HW is a polypropylene which contains additives that reduce decomposition over time due to oxidization caused by metal ions in hot water applications like blanchers and cookers.

PP-AR

B K W

PP-AR is an acid resistant material which is used where very high chemical resistance is required. The limited mechanical strength of polypropylene is considerably improved by the glass fiber reinforcement.

PE

B D E G K N O P T W Y

Polyethylene is used in low temperature applications and where high impact resistance is required.

PE-I

B D E G K N O P T W Y

Polyethylene with improved impact resistance.

PE-MI

DB DD

PE-MI is a metal detectable polypropylene with improved impact resistance to allow detection with both metal detectors and X-ray machines in case of belt breakage. PE-MI is used to increase safety in food processing equipment which will allow the user to detect if pieces of plastic from upstream conveyors have contaminated the conveyed product.

PBT-GR

K N

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

uni Belt Material Selection

PA6-FR

N

Flame retardant polyamide is a fire restricting material used in surroundings where there is a danger of the chain being ignited. The PA6-FR material is rated as V-0 which is the best classification according to UL 94 standard to avoid burning.

PA6

B D LG K N T W

Polyamide PA6 is a thermoplastic material. The combination of mechanical properties and chemical resistance makes this material suitable for many applications. Polyamide has a high resistance to wear and dynamic loads. This material is primarily used for sprockets.

PA6-GF

B K

This polyamide is reinforced with glass fiber. PA6-GF will be the right solution where higher stiffness and higher strength are required, compared to standard Polyamide. The combination of mechanical properties and chemical resistance makes this material suitable for many applications. Polyamide has a high resistance to wear and dynamic loads. Polyamide also has a larger working temperature range.

PA6.6

B D N W

Polyamide PA6.6 is a thermoplastic material with many fine properties. The material has a high resistance to wear, high strength and great stiffness. Furthermore, polyamide has a large temperature range.

PA6.6-H

B D N W

PA6.6-H is a polyamid which contains the same fine properties as PA6.6. The PA6.6-H improves upon PA6.6 in applications where higher temperature resistance is needed e.g. shrink tunnels.

Note: PA materials will absorb water in wet environments which will cause expansion of the dimension with approx. 1-2%, depending on the temperature level and the humidity of the air. This is current for all Polyamide variations.

PA6.6-GFH

K B

PA6.6-GFH is a special heat stabilized polyamid PA6.6 with glass fiber reinforcement. The base material is still the PA6.6 with its important properties, as high strength and great stiffness. The base material has a high resistance to wear, and the glass fiber contribute to increasing these wear properties. The unique PA6.6-GFH is heat resistant, and thus especially suitable for applications that are exposed to strong heat for a long time.

PVDF

N

Polyvinylidenfluoride is characterized by an especially high chemical resistance. Furthermore, PVDF has high wear resistance and good friction properties.

UV

The UV stabilizer is an additive recommended for plastic materials used for outdoor applications. The UV stabilizer is able to protect materials against direct sunlight. The UV stabilizer is FDA approved and will increase the lifetime of plastic materials. The UV stabilizer is available for the most common materials such as POM, PP and PE.

UV-C

This UV stabilizer is specially developed for applications that are exposed to UV-C light. The special UV lights is used in eg. the meat industry, where UV-C light is served to kill bacteria and microbes. The UV-C stabilizer holds an FDA approval and will increase the lifetime of the plastic material. This solution is only available in combination with POM material.

uni Pin Material Selection

Austenitic Stainless Steel

SS304

Austenitic quality containing 18% chrome and 8% nickel. Werkstoff no. 1.4301 AISI 304.

$^{18}/_{8}$ CrNi steel is non-magnetic in the entire recommended temperature range. The austenitic quality has a very high degree of corrosion resistance in oxidizing surroundings. However, in connection with evaporation of chloride-containing fluids, the $^{18}/_{8}$ CrNi steel is not recommended, as stress corrosion can occur over time.

Austenitic Stainless Steel

SS316

Austenitic quality containing 18% chrome, 10% nickel and 3% molybdenum. Werkstoff no. 1.4404 AISI 316.

$^{18}/_{10}$ CrNi steel with molybdenum is non-magnetic in the entire recommended temperature range. The austenitic quality has a very high degree of corrosion resistance in oxidizing surroundings. Molybdenum has been added to increase corrosion resistance particulary in chloride containing environments.

PP

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

PE

Polyethylene is used in low temperature applications and where high impact resistance is required.

PA6.6

Polyamide PA6.6 is a thermoplastic material with many fine properties. The material has a high resistance to wear, high strength and great stiffness. Furthermore, polyamide has a large temperature range.

PBT-GR

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

PBT

LG

PBT is a polybutylene terephthalate material. This material has good friction and wear properties as well as excellent hardness and stiffness.

uni Reinforcement Link Material Selection

Austenitic Stainless Steel

SS316

Austenitic quality containing 18% chrome, 10% nickel and 3% molybdenum. Werkstoff no. 1.4404 AISI 316.

$^{18}/_{10}$ CrNi steel with molybdenum is non-magnetic in the entire recommended temperature range. The austenitic quality has a very high degree of corrosion resistance in oxidizing surroundings. Molybdenum has been added to increase corrosion resistance particulary in chloride containing environments.

uni Light EP, uni OPB, uni L-SNB and uni BLB

Austenitic Stainless Steel

SS304

Austenitic quality containing 18% chrome and 8% nickel. Werkstoff no. 1.4301 AISI 304.

$^{18}/_{8}$ CrNi steel is non-magnetic in the entire recommended temperature range. The austenitic quality has a very high degree of corrosion resistance in oxidizing surroundings. However, in connection with evaporation of chloride-containing fluids, the $^{18}/_{8}$ CrNi steel is not recommended, as stress corrosion can occur over time.

uni Flex SNB

uni Rubber Material Selection

Rubber code	Rubber color	Hardness (shore A)	Temperature range		FDA approved	Attachment to base link
			°C	°F		
01 N	Natural	64	-40 to +125°C	-40 to +257°F	✔	Mechanical
01 K	Natural	64	-40 to +125°C	-40 to +257°F	✔	Mechanical
03 N	Natural	60	-40 to +80°C	-40 to +176°F	✔	Co-moulding
03 K	Black	60	-40 to +80°C	-40 to +176°F	✔	Co-moulding
05 I	Ivory	85	-40 to +80°C	-40 to +176°F	✔	Mechanical
09 K	Black	85	-40 to +125°C	-40 to +257°F	-	Mechanical

FDA Approvals

FDA US Food and Drug Administration

US Federal Agency approves materials for use with food contact.

The uni-chains product range holds the following FDA approved materials:

- POM-D, POM-DI, POM-LF, POM-SLF, POM-NL and POM-S
- PP, PP-I, PP-MI, PP-HW
- PE, PE-I, PE-MI
- PVDF
- PA6, PA6.6, PA6.6-GFH
- UV additive
- PBT

FDA & EC1935/2004

Ammeraal Beltech Modular A/S hereby declares that the materials in the belt type meet the requirements mentioned in Title 21: Code of Federal Regulations, issued by the FDA according to paragraph 177.2600 for all wrapped and unwrapped foodstuffs.

The listed materials comply with the requirements:

- POM (D, DI, LF, SLF & SX)
- PP & PP-I
- PE & PE-I
- PA6.6, PA6.6-GFH

USDA Approvals

US Department of Agriculture

USDA evaluates and accepts products and equipment for use in the dairy, meat, and poultry industries. uni-chains belts listed on this page are included in the USDA's Accepted Meat and Poultry Equipment book as accepted for food contact and packaged goods respectively. In addition, USDA inspectors accept belt styles on an individual plant basis.

USDA Dairy Grading Branch has issued Equipment Acceptance Certificates for the belt types listed on this page under USDA Dairy Accepted.

USDA Accepted Meat and Poultry Equipment (Food Contact)

- uni SNB series
- uni OPB 4C, uni OPB 4V C, uni OPB 4V 23%, uni OPB 4V 36%, uni OPB 8C and uni OPB 8 25%

USDA Accepted Meat and Poultry Equipment (Packaged Product only)

- uni Light
- uni SNB series
- uni OPB 4C, uni OPB 4V C, uni OPB 4V 23%, uni OPB 4V 36%, uni OPB 8C and uni OPB 8 25%

USDA Dairy Approval

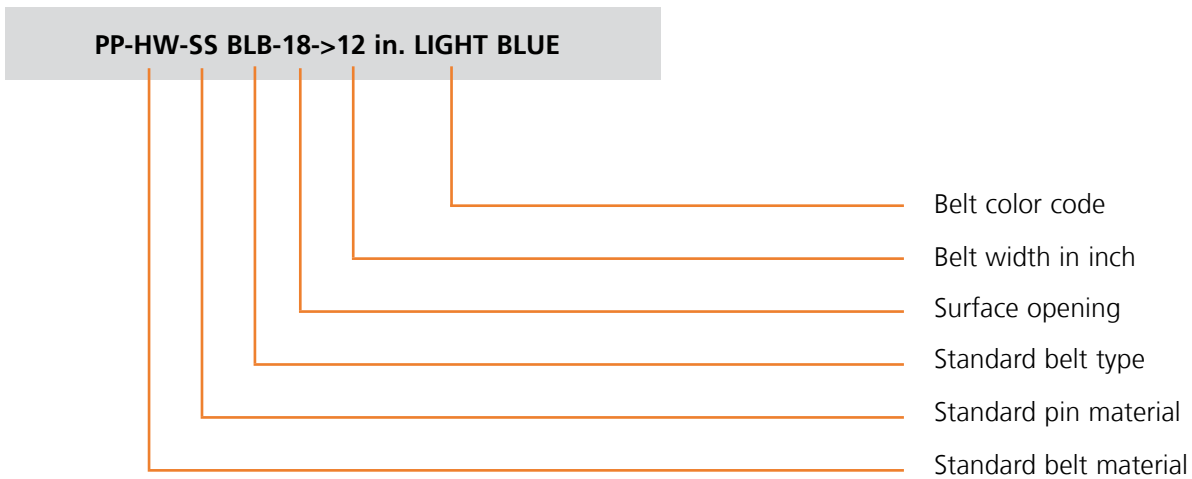
- uni MPB, uni MPB G, uni MPB GE, uni MPB N, uni MPB NE, uni MPB 18%, uni MPB 20% and uni MPB 22%
- uni CNB C, uni CNB 18% and uni CNB 22%

USDA Equipment Acceptance Certificate in compliance with NSF-3A-14159-003. Hygiene requirements for design of mechanical belt conveyors used in meat and poultry processing.

The approval covers the following products:

- uni MPB Single Link® and bricklayed belts
- uni MPB Product Supports and Side Guards
- uni MPB Sprockets
- uni Flex ONE
- uni X-MPB

Reference No. for Belt Systems



Series Codes

Pitch		Description	Code
mm	in.		
12.7	0.50	uni M-QNB system	11
12.7	0.50	uni M-SNB system	22
12.7	0.50	uni M-TTB system	64
12.7	0.50	uni M-PNB system	83
19.05	0.75	uni Light system	28
25.4	1.00	uni QNB system	14
25.4	1.00	uni CNB system	19
25.4	1.00	uni Flex SNB system	21
25.4	1.00	uni Flex ASB system	65
25.4	1.00	uni SNB M2/M2A system	75
25.4	1.00	uni S-MPB system	78
27.9	1.10	uni OWL system	66
38.1	1.50	uni SSB system	16
38.1	1.50	uni Light EP system	25
38.1	1.50	uni Flex ONE system	82
50.0	1.97	uni L-SNB system	20
50.0	1.97	uni OPB system	24
50.8	2.00	uni MPB system	18
50.8	2.00	uni RTB system	57
50.8	2.00	uni BLB system	60
50.8	2.00	uni Flex L-ASB system	67
50.8	2.00	uni CPB system	74
63.5	2.50	uni XLB system	73
63.5	2.50	uni X-MPB system	80

Belt Code Master

Example 1

60PPHWSS182LB

Series code	Belt material	Pin material	Opening in %	Variant	Width group	Color
60	PPHW	SS	18		2	LB
uni BLB	Hot water polypropylene	Stainless steel	18% opening		W > 304 mm (12 in.)	Light blue

Example 2

74NLASPA6600RU1K

Series code	Belt material	Pin material	Opening in %	Variant	Width group	Color
74	NLAS	PA6.6	00	RU	1	K
uni CPB	POM-NLAS	PA6.6	0% closed	Rough	6 in. < W < 12 in.	Black

Belt Description Master

Example 1

PPHW-SS BLB-18->12 in. LIGHT BLUE

Belt material	Pin material	Series	Opening in %	Variant	Width group	Color
PP-HW	SS	uni BLB	18		> 12 in.	Light blue

Example 2

NLAS-PA66 CPB-00-ROUGH 6 in. < W < 12 in. BLACK

Belt material	Pin material	Series	Opening in %	Variant	Width group	Color
NLAS	PA66	uni CPB	00	Rough	6 in. < W < 12 in.	Black
			0% closed			

Pitch 12.7 mm (0.50 in.)

uni M-TTB and uni M-TTB CS

This new generation 0.5 in. pitch belts offers a unique, easy cleanable surface in combination with self-lubricating POM-D material. The 37% open belt can run over a 19 mm (0.75 in.) nose bar and is a perfect solution for food processing belts in cooling, freezing, drying or proofing applications

The curved surface of the uni M-TTB CS belt offers a minimal contact area of 10% and a smooth transfer. In combination with a 15 tooth sprocket, it forms a circle allowing a scraper against the belt.

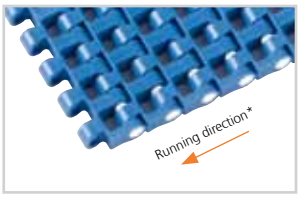
The uni M-TTB series improves performance in the following industries:

- Bakery industry including dough transport, cooling lines, internal transport, metal detectors and packaging lines
- Seafood applications including tray packing lines
- Meat & poultry applications including packaging lines
- Can making/filling lines and accumulation tables

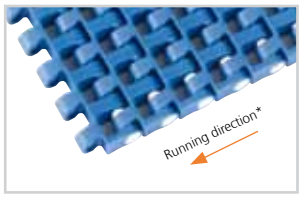
Product features and operational benefils:

- Improved strength enabling longer conveyors
- Standard POM-D material containing a self-lubricating component, improving non-stick characteristics and reducing friction
- Easy to clean thanks to improved hygienic design of the hinges
- Efficient product transfer and less product contact area (efficient cooling) with the curved surface design
- Easy retrofitting

Standard Selection



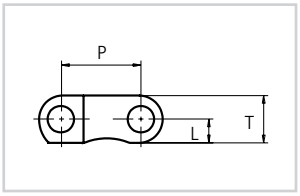
uni M-TTB
Surface opening 37%



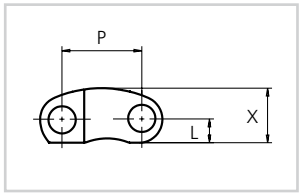
uni M-TTB CS
Surface opening 37%

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

Dimensional Sketches



uni M-TTB



uni M-TTB CS

Dimensions

	mm	in.
P	12.7	0.50
T	7.5	0.29
X	8.8	0.35
L	3.8	0.15

Straight running

12.7 mm (0.50 in.)

See page 8

Snap Pin A1

ø4 mm (0.16 in.)

uni M-TTB: 12.5 mm (0.49 in.)
uni M-TTB CS: 15.0 mm (0.59 in.)

See page 19

See page 172

Alternative

PA6.6 D **PBT** LG

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni M-TTB	**PP** B W	**PP** W
	POM-D B W	**PP** W
uni M-TTB CS	**PP** B	**PP** W

Alternative pin materials and colors:

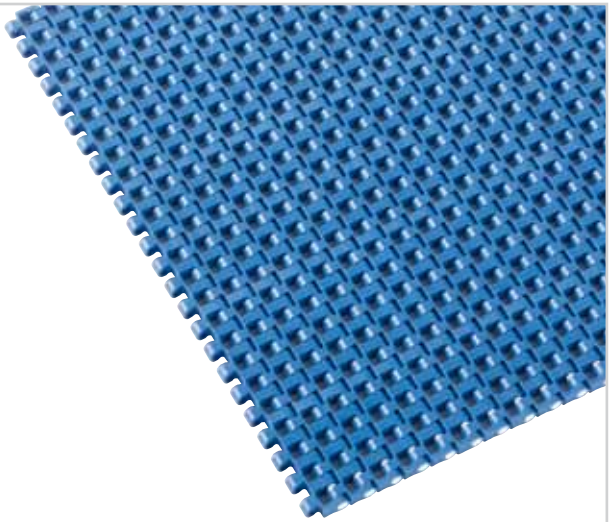
PA6.6 D
PBT LG

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

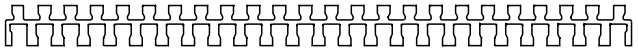
mm	in.	mm	in.	mm	in.	mm	in.
77	3.0	384	15.1	769	30.3	1383	54.4
154	6.1	461	18.1	922	36.3	1537	60.5
231	9.1	538	21.2	1076	42.4	1690	66.5
308	12.1	615	24.3	1229	48.4	1844	72.6

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni M-TTB Single Link®



uni M-TTB Single Link® is available in the following standard width:



K1200 (308.0 mm (12.13 in.))

uni M-TTB Single Link® standard materials and colors see page 17.

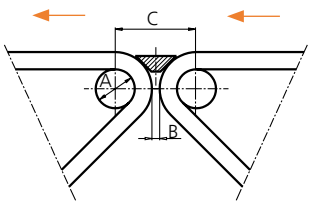
Belt Weights

Belt material	POM-D		PP	
Pin material	PP		PP	
	kg/m²	lb/ft²	kg/m²	lb/ft²
uni M-TTB | uni M-TTB CS	5.8	1.19	4.2	0.86

Permissible Tensile Strength

Belt material	POM-D		PP	
Pin material	PP		PP	
	N/m	lbf/ft	N/m	lbf/ft
uni M-TTB | uni M-TTB CS	22500	1541	13000	891

Nosebars Min. Dimensions



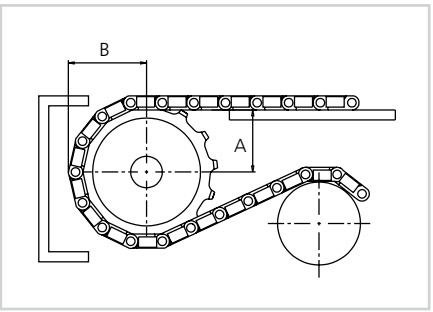
	mm	in.
A min.	19.0	0.75
B min.	4.0	0.16
C min.	40.6	1.60

Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
12	49.1	1.93	52.0	2.05	-	-	ø18.0/26.0	ø0.71/1.02	643PA6MTTB12221N00
15	61.1	2.41	64.6	2.54	-	-	ø18.0/30.0	ø0.71/1.18	643PA6MTTB15221N00
							sq 25.0	sq 0.98	643PA6MTTB15221N00M025S
							sq 25.4	sq 1.00	643PA6MTTB15221N00I100S
24	97.3	3.83	102.1	4.02	-	-	ø18.0/40.0	ø0.71/1.57	643PA6MTTB24221N00
							sq 38.1	sq 1.50	643PA6MTTB24221N00I150S
							sq 40.0	sq 1.57	643PA6MTTB24221N00M040S
36	145.7	5.74	152.3	6.00	-	-	ø18.0/70.0	ø0.71/2.76	643PA6MTTB36221N00
							sq 38.1	sq 1.50	643PA6MTTB36221N00I150S
							sq 40.0	sq 1.57	643PA6MTTB36221N00M040S

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension for uni M-TTB CS		Wearstrip distance A	
	mm	in.	mm	in.
12	29.5	1.16	19.9	0.78
15	35.6	1.40	26.1	1.03
24	53.7	2.11	44.5	1.75
36	77.9	3.07	68.8	2.71



Width of sprockets: 30.0 mm (1.18 in.)
Tooth width: 6.5 mm (0.26 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni M-TTB and uni M-TTB CS	1500	337	1000	225

Pitch 12.7 mm (0.50 in.)

uni M-QNB – the high speed and tight transfer belt

The uni M-QNB is developed for tight transfer and high speed conveyors in both food and non food industries. The 0.5 in. pitch, bi-directional belt ensures product stability even in nosebar and high speed applications thanks to the rounded bottom surface.

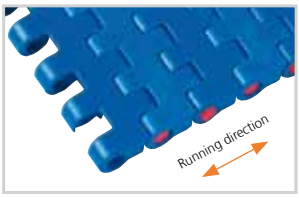
The uni M-QNB belt increases performance in the following industries/applications:

- Bakery applications including dough handling, general conveyance and packaging lines
- Meat applications including tray pack lines and metal detectors
- Seafood applications including grading lines and weighing lines
- Beverage applications including depalletizers, accumulation tables and acceleration lines
- Can manufacturing applications including palletizers, mass handling and accumulation tables
- Corrugated applications including downstacker, corrugator take off, transfer car and WIP storage

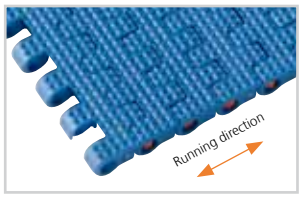
Product features and operational benefits:

- Less vibration in high speed and nosebar applications
- Wear resistance in high speed applications with tight transfers
- Strong bi-directional belt for longer conveyors
- Unique lockpin locking system for easy maintenance
- Unique sprocket engagement reducing pulsation
- Unique Rubber Top eliminating wear and increasing friction in incline or acceleration applications

Standard Selection



uni M-QNB C



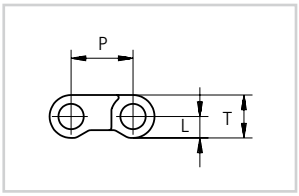
uni M-QNB NS

uni M-QNB Rubber Top

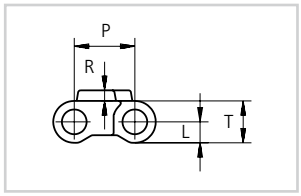
uni M-QNB Vacuum

Vacuum holes:
ø3.2 mm (0.12 in.)

Dimensional Sketches



uni M-QNB
uni M-QNB NS
uni M-QNB Vacuum



uni M-QNB Rubber Top

Dimensions

	mm	in.
L	4.4	0.17
P	12.7	0.50
R	2.2	0.09
T	8.8	0.35

Straight running

12.7 mm (0.50 in.)

ø5 mm (0.20 in.)

Patent pending

See page 8

20 mm (0.8 in.)

See page 23

See page 172

03 K N See page 12

Alternatives

PBT LG

Standard Materials and Colors

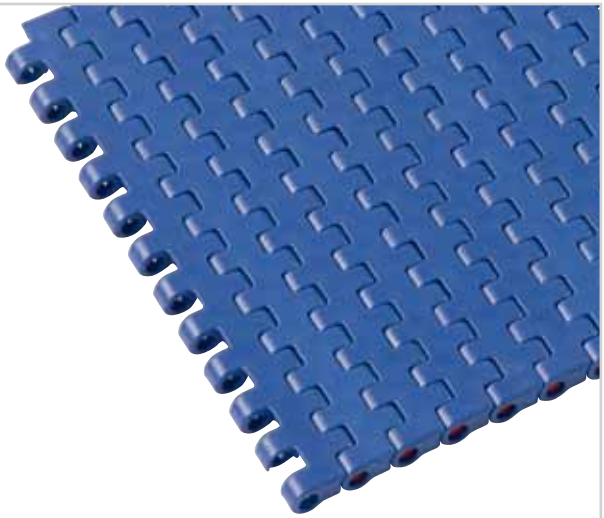
Type	Standard materials and colors	Standard pin materials and colors
uni M-QNB C	**POM-SLF** B	**PA6.6** D
	PP W	**PA6.6** N
	PP G B	**PA6.6** D
	PE B	**PA6.6** D
	POM-EC K	**PA6.6** D
uni M-QNB NS	**POM-SLF** B W	**PA6.6** N
	PE B	**PA6.6** D
uni M-QNB Rubber Top	**PP** G **+ 03** K	**PA6.6** D
	PP W **+ 03** N	**PA6.6** N
uni M-QNB Vacuum	**PP** G	**PA6.6** D
Alternative pin materials and colors:		**PBT** LG

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

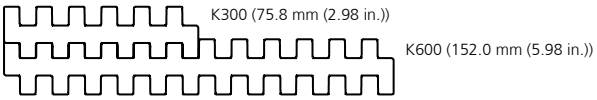
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	380	15.0	683	26.9	988	38.9	1292	50.9	1595	62.8
152	6.0	456	18.0	759	29.9	1063	41.9	1368	53.9	1670	65.7
228	9.0	531	20.9	835	32.9	1139	44.8	1443	56.8	-	-
304	12.0	607	23.9	912	35.9	1216	47.9	1519	59.8	-	-

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni M-QNB Single Link®



uni M-QNB Single Link® is available in the following standard widths:



uni M-QNB Single Link® standard materials and colors see page 21.

Standard Single Link® widths

Belt type and widths	K300 75.8 mm (2.98 in.)	K600 152.0 mm (5.98 in.)
uni M-QNB C	X	X
uni M-QNB NS		X
uni M-QNB Rubber Top	X	X
uni M-QNB Vacuum		X

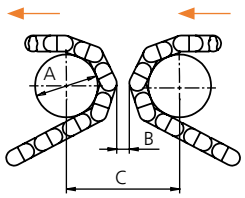
Belt Weights

Belt material	POM-SLF		PP		PE		POM-EC	
Pin material	PA6.6		PA6.6		PA6.6		PA6.6	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni M-QNB C	8.2	1.68	6.1	1.25	5.9	1.21	7.5	1.54
uni M-QNB NS	8.2	1.68	6.3	1.29	5.9	1.21	7.5	1.54
uni M-QNB Rubber Top	-	-	6.3	1.29	-	-	-	-
uni M-QNB Vacuum	8.2	1.68	6.3	1.29	5.9	1.21	7.5	1.54

Permissible Tensile Strength

Belt material	POM-SLF		PP		PE		POM-EC	
Pin material	PA6.6		PA6.6		PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni M-QNB C	19000	1302	13000	891	8000	548	14500	993
uni M-QNB NS	19000	1302	13000	891	8000	548	14500	993
uni M-QNB Rubber Top	-	-	13000	891	-	-	-	-
uni M-QNB Vacuum	19000	1302	13000	891	8000	548	14500	993

Nosebars Min. Dimensions



	mm	in.
A mín.	20.0	0.79
B mín.	4.0	0.16
C mín.	41.6	1.64

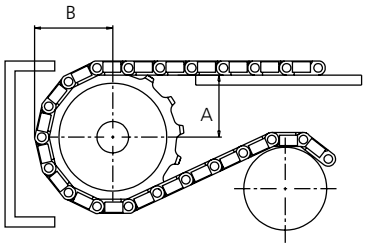
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	41.1	1.62	41.5	1.63	28.0	1.10	ø10/18.0*	0.39/0.71*	223PA6MSNB210211N00
19	77.2	3.04	79.0	3.11	65.0	2.56	19.1/40.0*	0.75/1.57*	223PA6MSNB219211LG00
							sq 25.4	sq 1.00	223PA6MSNB219211N00I100S
							sq 38.1	sq 1.50	223PA6MSNB219211N00I150S
							sq 40.0	sq 1.57	223PA6MSNB219211N00M040S
28	113.4	4.46	116.2	4.57	65.0	2.56	ø19.1/40.0	0.75/1.57*	223PA6MSNB228211LG00
							sq 38.1	sq 1.50	223PA6MSNB228211N00I150S
							sq 40.0	sq 1.57	223PA6MSNB228211LG00M040S
					100.0	3.94	ø40.0/70.0	ø1.57/2.76	223PA6MSNB228211LG01
							sq 60.0	sq 2.36	223PA6MSNB228211LG00M060S
38	153.8	6.06	157.4	6.20	75.0	2.95	19.1/40.0*	0.75/1.57*	223PA6MSNB238211N00
							sq 38.1	sq 1.50	223PA6MSNB238211N00I150S
							sq 40.0	sq 1.57	223PA6MSNB238211N00M040S
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76	223PA6MSNB238211N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	25.2	0.99	15.4	0.61
19	43.5	1.71	34.2	1.35
28	62.0	2.44	52.8	2.08
38	82.4	3.24	73.8	2.89



Width of sprockets: 20.0 mm (0.79 in.)
Tooth width: 7.0 mm (0.28 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni M-QNB	1000	225	800	180

Pitch 25.4 mm (1.00 in.)

uni Flex ASB

This new generation of 1 in. pitch radius belts available with or without hold down tabs in combination with a flat or curved surface offers a unique patent design providing a very strong radius belt. This new generation is easier to clean and, especially with POM-D material, it has good release characteristics. The increased lateral stability allows fewer support strips than normal, where the beveled edges facilitates side way loading. Furthermore, the curved surface of the uni Flex ASB CS belt offers a reduced contact area of 10% and a smooth transfer. And in combination with a 9 tooth sprocket it forms a circle allowing a the use of scraper against the belt. The uni Flex ASB is a proven belt in spiral applications.

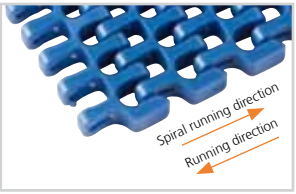
The uni Flex ASB Series improves performance in the following industries and applications:

- Bakery industry including dough transport, cooling lines, internal transport, metal detectors and packaging lines
- Seafood applications including tray packing lines
- Meat & poultry applications including packaging lines
- Spiral applications as proofing and freezing of croissants, cooling and resting

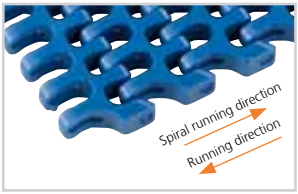
Product features:

- Improved strength - 60% higher than similar belts, so longer conveyors are possible
- Standard POM-D material containing a self-lubricating component, improving non-stick characteristics and reducing friction
- Easy to clean due to improved hygienic design of the hinges
- Efficient product transfer and less product contact area (efficient cooling) with the curved surface type
- Fewer support strips required due to increased lateral stability

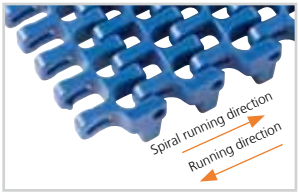
Standard Selection



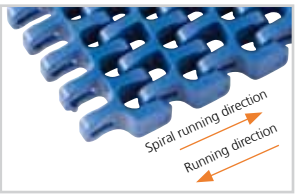
uni Flex ASB
Surface opening 43%



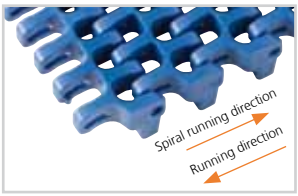
uni Flex ASB R
Surface opening 43%



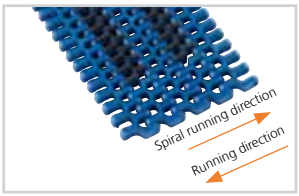
uni Flex ASB T
Surface opening 43%



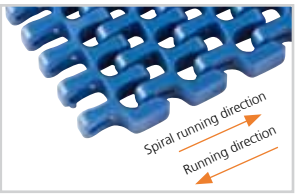
uni Flex ASB CS
Surface opening 43%



uni Flex ASB CS T
Surface opening 43%



uni Flex ASB Rubber Top
Surface opening 43%



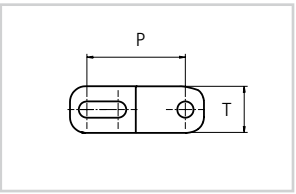
uni Flex ASB Edge
Surface opening 43%

uni Flex ASB | ASB T | ASB CS | ASB CS T | ASB Rubber Top | ASB Edge: Min. inside radius 2.2 x belt width.

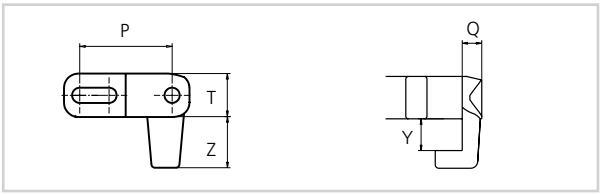
uni Flex ASB R: Min. inside radius 1.6 x belt width.

Note: uni Flex ASB 1.6 can not be used in conveyors with both left and right turning curves. All curves have to turn in the same direction.

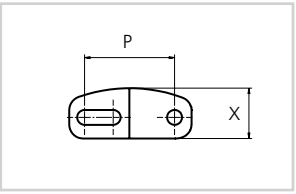
Dimensional Sketches



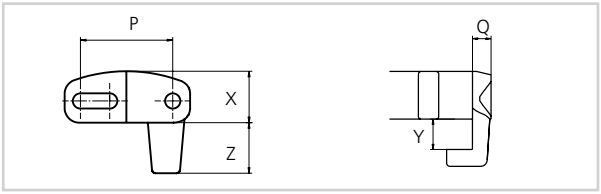
uni Flex ASB | uni Flex ASB R



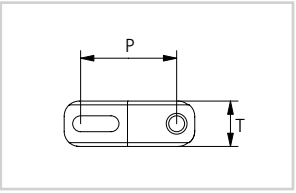
uni Flex ASB T



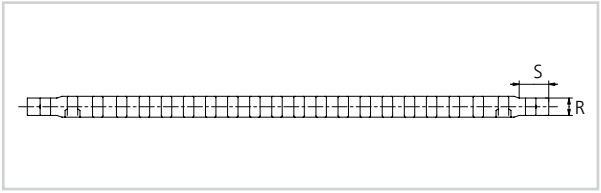
uni Flex ASB CS



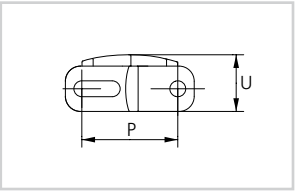
uni Flex ASB CS T



uni Flex ASB Edge



uni Flex ASB Edge



uni Flex ASB Rubber Top

Standard indent for uni Flex ASB R: Min. indent inside 230 mm (9.1 in.) Min. indent outside: 52 mm (2.0 in.)

Standard indent for uni Flex ASB | ASB R | ASB CT| ASB CS | ASB CS T: Min. indent inside & outside: 52 mm (2.0 in.)

Sideflexing

25.4 mm (1.00 in.)

Snap Pin A2

ø4.0 mm (0.16 in.)

Patent pending

See page 8

25.0 mm (0.98 in.)

See page 30

See page 172

Alternative

PP W **PBT** LG

Accessories

See page 29

See page 30

Dimensions

	mm	in.		mm	in.		mm	in.
Q	5.5	0.20	**X**	14.2	0.56	**S**	16.0	0.63
P	25.4	1.00	**Y**	9.0	0.35	**R**	10.0	0.39
T	12.0	0.47	**Z**	14.0	0.55	**U**	15.00	0.59

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni Flex ASB	**POM-D** W	**PA6.6** B
	POM-D B	**PA6.6** B
	PP G	**PA6.6** B
	PP W	**PA6.6** B
	PP B	**PA6.6** B
uni Flex ASB R	**POM-D** B	**PA6.6** B
uni Flex ASB T	**POM-D** W	**PA6.6** B
	POM-D B	**PA6.6** B
	PP W	**PA6.6** B
	PP B	**PA6.6** B
uni Flex ASB CS	**POM-D** W	**PA6.6** B
	POM-D B	**PA6.6** B
uni Flex ASB CS T	**POM-D** W	**PA6.6** B
	POM-D B	**PA6.6** B
uni Flex ASB Rubber Top	**PP** B **+03** K	**PA6.6** B
	PP W **+03** N	**PA6.6** B
uni Flex ASB Edge	**POM-D** B	**PA6.6** B
	PP B	**PA6.6** B

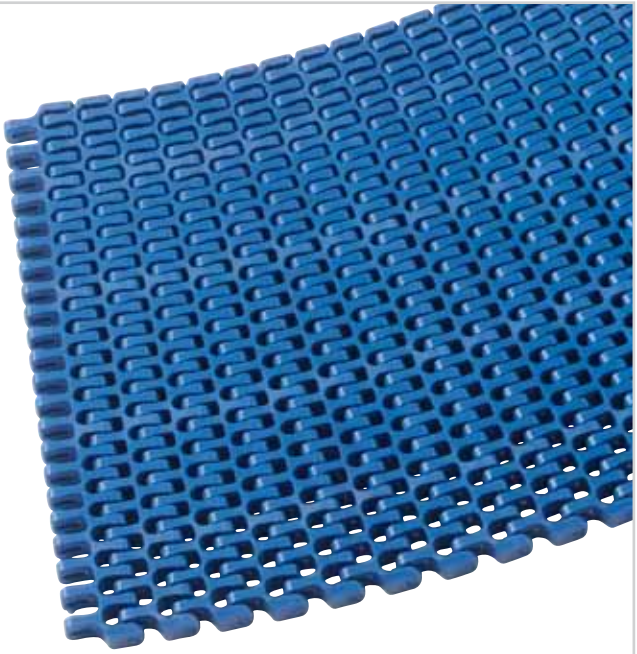
Alternative pin materials: See page 25.

Standard Bricklayed Belt Widths (See below for Single Link® widths)

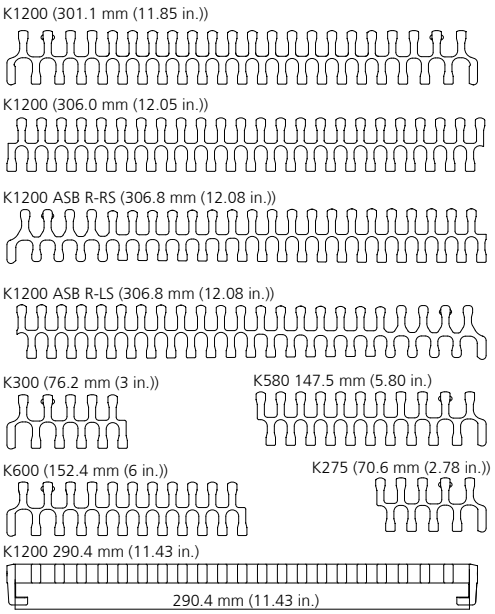
mm	in.	mm	in.	mm	in.	mm	in.
301	11.9	607	23.9	913	35.9	1219	48.0
378	14.9	684	26.9	990	39.0	1296	51.0
454	17.9	760	29.9	1066	42.0	1372	54.0
531	20.9	837	32.9	1143	45.0	1449	57.0

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni Flex ASB Single Link®



uni Flex ASB Single Link® is available in the following standard widths:



The both link is split in two and used as the outer part of the belt.

The center module are used in the middle of the belt.

Both K300 and K600 are available as left and right module.

uni Flex ASB Single Link® standard materials and colors see page 26.

uni Flex ASB standard Single Link® widths

Belt type and widths	K279 Outer 70.6 mm (2.78 in.)	K300 Outer 77.0 mm (3.03 in.)	K580 Outer 147.5 mm (5.80 in.)	K600 Outer 153.3 mm (6.04 in.)	K1200 Left or Right 306.8 mm (12.08 in.)	K1200 Both 301.1 mm (11.85 in.)	K1200 Center 306 mm (12.05 in.)
uni Flex ASB	X	X	X	X		X	X
uni Flex ASB R					X		
uni Flex ASB T	X	X	X	X		X	
uni Flex ASB CS	X	X	X	X		X	X
uni Flex ASB CS T	X	X	X	X		X	
uni Flex ASB Rubber Top							X
uni Flex ASB Edge						X	

Max. Permissible Load in Curve

Belt material	Belt width	POM		PP	
Pin material		PA6.6		PP	
	in.	N	lbf	N	lbf
uni Flex ASB	3 in. < = W < 6 in.	1200	270	720	162
uni Flex ASB T	3 in. < = W < 6 in.	1200	270	720	162
uni Flex ASB CS	3 in. < = W < 6 in.	1200	270	720	162
uni Flex ASB CS T	3 in. < = W < 6 in.	1200	270	720	162
uni Flex ASB Rubber Top	3 in. < = W < 6 in.	1200	270	720	162
uni Flex ASB Edge	3 in. < = W < 6 in.	1200	270	720	162
uni Flex ASB	6 in. < = W < 12 in.	1200	270	720	162
uni Flex ASB T	6 in. < = W < 12 in.	1200	270	720	162
uni Flex ASB CS	6 in. < = W < 12 in.	1200	270	720	162
uni Flex ASB CS T	6 in. < = W < 12 in.	1200	270	720	162
uni Flex ASB Rubber Top	6 in. < = W < 12 in.	1200	270	720	162
uni Flex ASB Edge	6 in. < = W < 12 in.	1200	270	720	162
uni Flex ASB	12 in. < = W < 18 in.	1600	360	960	216
uni Flex ASB R	12 in. < = W < 18 in.	1200	270	720	162
uni Flex ASB T	12 in. < = W < 18 in.	1600	360	960	216
uni Flex ASB CS	12 in. < = W < 18 in.	1600	360	960	216
uni Flex ASB CS T	12 in. < = W < 18 in.	1600	360	960	216
uni Flex ASB Rubber Top	12 in. < = W < 18 in.	1600	360	960	216
uni Flex ASB Edge	12 in. < = W < 18 in.	1600	360	960	216
uni Flex ASB	W > 18 in.	2040	459	1224	275
uni Flex ASB R	W > 18 in.	2040	459	1224	275
uni Flex ASB CS	W > 18 in.	2040	459	1224	275
uni Flex ASB T	W > 18 in.	2040	459	1224	275
uni Flex ASB CS T	W > 18 in.	2040	459	1224	275
uni Flex ASB Rubber Top	W > 18 in.	2040	459	1224	275
uni Flex ASB Edge	W > 18 in.	2040	459	1224	275

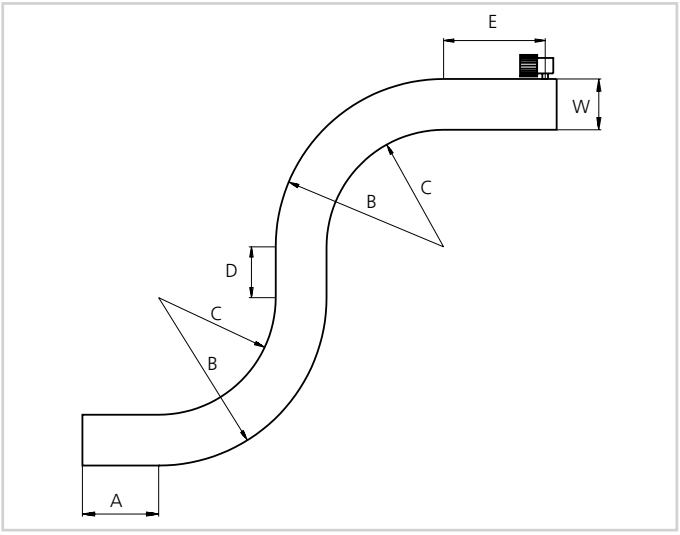
Max. Permissible Load in Straight Sections

Belt material	POM		PP	
Pin material	PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft
uni Flex ASB	18800	1297	12500	863
uni Flex ASB R	18800	1297	12500	863
uni Flex ASB T	15000	1035	10000	690
uni Flex ASB CS	18800	1297	12500	863
uni Flex ASB CS T	18800	1297	12500	863
uni Flex ASB Rubber Top	18800	1297	12500	863
uni Flex ASB Edge	18800	1297	12500	863

Belt Weights

Belt material	POM		PP	
Pin material	PA6.6		PP	
	kg/m²	lb/ft²	kg/m²	lb/ft²
uni Flex ASB	8.2	1.68	5.2	1.06
uni Flex ASB R	8.2	1.68	5.2	1.06
uni Flex ASB T	8.2	1.68	5.2	1.06
uni Flex ASB CS	8.3	1.70	5.3	1.08
uni Flex ASB CST	8.3	1.70	5.3	1.08
uni Flex ASB Rubber Top	-	-	8.0	1.64
uni Flex ASB Edge	8.2	1.68	5.2	1.06

Design Guidelines

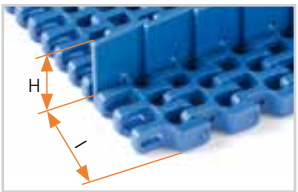


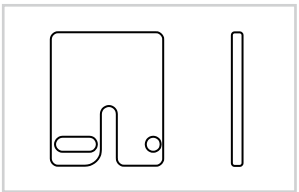
	uni Flex ASB ASB | ASB R | ASB CT| ASB CS | ASB CS T: Radius 2.2	uni Flex ASB R Radius 1.6
A	min. 1.5 x W	min. 1.5 x W
B	min 3.2 x W	min. 2.6 x W
C	min 2.2 x W	min. 1.6 x W
D	min 2 x W	
E	min 2 x W, min.	
W	Belt width	

For min. conveyor dimensions please refer to sketch and diagram.

Note: uni Flex ASB 1.6 can not be used in conveyors with both left and right turning curves. All curves have to turn in the same direction.

Accessories | Lane Divider





Lane Divider

Note: Lane dividers can as standard be placed in multiples of 25.4 mm

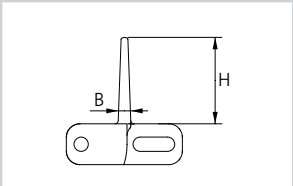
Dimensions

	mm	in.
H	25.4	1.00
l min	50.8	2.00

Standard Materials and Colors

POM-D	W	B

Accessoires | Product Support



uni Flex ASB
Product Support Flat

Standard Materials and Colors

Type	H		B		Width			Standard materials and colors
	mm	in.	mm	in.	Type	mm	in.	
uni Flex ASB Product Support Flat	25.4	1.00	3.7	0.14	K600	151	5.94	**POM-D** W
uni Flex ASB Product Support Flat	25.4	1.00	3.7	0.14	K600	151	5.94	**POM-D** B

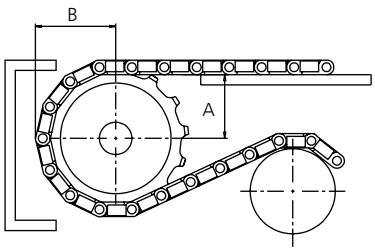
Minimum bricklayed indent for uni Flex ASB is 36 mm (1.42 in)

Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
7	58.5	2.30	58.0	2.28	-	-	ø18.0/25.0	ø0.71/0.98	653PA6FASB07221N00
9	74.3	2.93	75.0	2.95	-	-	ø18.0/30.0	ø0.71/1.18	653PA6FASB09221N00
							sq 25.4	sq 1.00	653PA6FASB09221N00I100S
12	98.1	3.86	100.0	3.94	-	-	ø18.0/40.0	0.71/1.57	653PA6FASB12221N00
							sq 38.1	sq 1.50	653PA6FASB12221N00I150S
15	122.2	4.81	124.6	4.91	-	-	ø18.0/70.0	ø0.71/2.76	653PA6FASB15221N00
							sq 38.1	sq 1.50	653PA6FASB15221N00I150S
							sq 40.0	sq 1.57	653PA6FASB15221N00M040S
18	146.3	5.76	149.3	5.88	-	-	ø18.0/70.0	ø0.71/2.76	653PA6FASB18221N00
							sq 38.1	sq 1.50	653PA6FASB18221N00I150S
							sq 40.0	sq 1.57	653PA6FASB18221N00M040S

Placement of Wearstrips and Sprockets

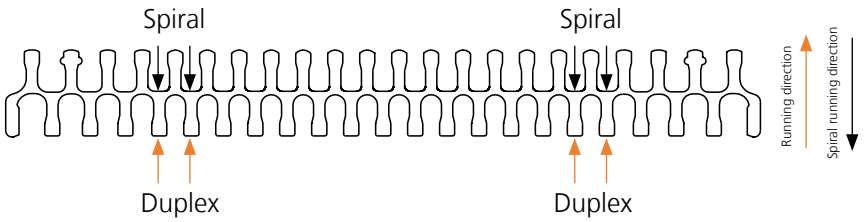
No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
7	37.3	1.47	19.5	0.77
9	45.1	1.78	28.0	1.10
12	57.1	2.25	40.5	1.59
15	69.1	2.72	52.9	2.08
18	81.1	3.19	65.2	2.57



Width of sprockets: 30.0 mm (1.18 in.)
Tooth width: 7.0 mm (0.28 in.)
Standard material: PA6

Other sprocket sizes are available upon request.

Placing of Sprockets



Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni Flex ASB	2000	450	1100	247
uni Flex ASB R	2000	450	1100	247
uni Flex ASB T	2000	450	1100	247
uni Flex ASB CS	2000	450	1100	247
uni Flex ASB CS T	2000	450	1100	247
uni Flex ASB Rubber Top	0	0	1100	247
uni Flex ASB Edge	2000	450	1100	247

Pitch 25.4 mm (1.00 in.)

uni S-MPB – strong and cleanable 1 in. pitch belt

The uni S-MPB belt is a strong and cleanable belt used in various food applications. The reinforcement bar on the underside ensures high impact resistance. The uni S-MPB belt is available in the unique uni Single Link® belt with a (no bricklay) uni Single Link® product support for optimal cleaning. Nonstick version ensure product release from the belt.

The uni S-MPB belt is the preferred belt in the following industries/applications:

- Meat applications (beef & pork) including fat/trim lines, cutting lines, general conveyance, tray conveying and packaging lines
- Fruit & vegetable applications including elevators, inspection tables and packaging lines
- Seafood applications including inspection tables, grading lines and trim lines
- Bakery applications including raw dough handling, cooling lines and packing lines

Product features and operational benefits:

- Easy to clean uni Single Link® belt reducing downtime for cleaning with up to 70%
- uni Single Link® belt (no bricklay) reducing bacteria growth
- uni Single Link® eliminating knives sticking in belt seams
- Unique lockpin system providing faster and simpler maintenance
- Unique sprocket engagement enabling high product load and longer conveyors
- Strong and thick uni Single Link® product supports eliminating gaps for product traps
- Close transfer applications

Standard Selection

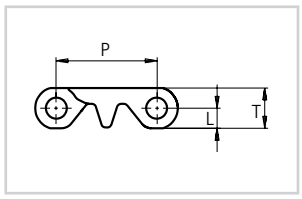
uni S-MPB C

uni S-MPB N

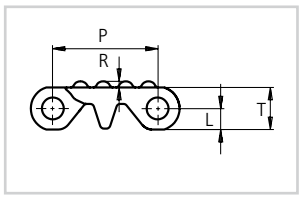
uni S-MPB NE
Indent is 38.6 mm (1.52 in.)

uni S-MPB 22% CS

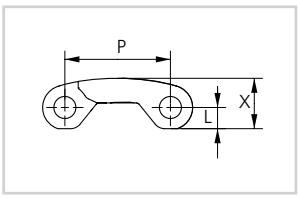
Dimensional Sketches



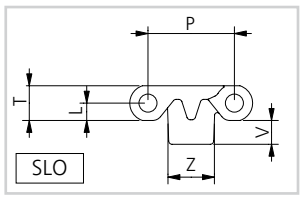
uni S-MPB C



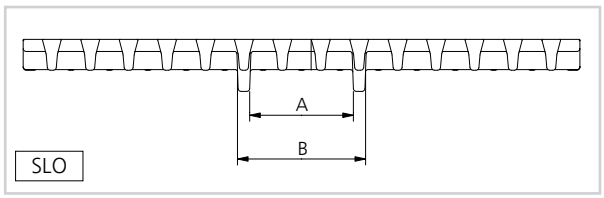
uni S-MPB N | uni S-MPB NE



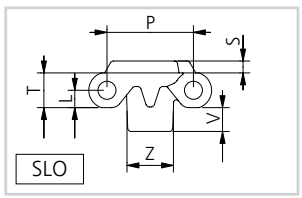
uni S-MPB 22% CS

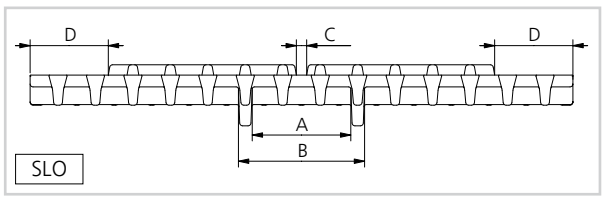


uni S-MPB C TAB



uni S-MPB C TAB





uni S-MPB C TAB Rubber Top

Dimensions

	mm	in.		mm	in.		mm	in.
A	33.4	1.31	**L**	5.2	0.20	**S**	3.5	0.14
B	42.8	1.69	**P**	25.4	1.00	**V**	7.0	0.28
C	3.5	0.14	**R**	1.5	0.06	**Z**	13.9	0.55
D	26.5	1.04	**T**	10.3	0.41	**X**	12.1	0.48

SLO = *Single Link only*

Straight running

25.4 mm (1.00 in.)

ø5 mm (0.20 in.)

Patent — Patent pending

Materials — See page 8

23 mm (0.91 in.)

See page 37

See page 172

See page 169

Alternatives

PBT LG

Accessories

See page 36

See page 36

Standard Materials and Colors

Type	Standard materials and colors		Standard pin materials and colors	
uni S-MPB C	**POM-DI**	**W**	**PA6.6**	**N**
	PP	**W**	**PA6.6**	**N**
	PP	**B**	**PA6.6**	**D**
	PE-I	**N**	**PA6.6**	**N**
	PE-I	**B**	**PA6.6**	**D**
uni S-MPB 22% CS	**POM-DI**	**W**	**PA6.6**	**N**
	PP	**W**	**PA6.6**	**N**
	PP	**B**	**PA6.6**	**D**
	PE-I	**N**	**PA6.6**	**N**
	PE-I	**B**	**PA6.6**	**D**
uni S-MPB N	**POM-DI**	**W**	**PA6.6**	**N**
	PE-I	**N**	**PA6.6**	**N**
	PE-I	**B**	**PA6.6**	**D**
uni S-MPB NE	**POM-DI**	**W**	**PA6.6**	**N**
	PE-I	**N**	**PA6.6**	**N**
	PE-I	**B**	**PA6.6**	**D**

Alternative pin materials and colors. See page 33.

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	684	26.9	1291	50.8	1898	74.7	2506	98.7
152	6.0	759	29.9	1367	53.8	1974	77.7	2582	101.7
228	9.0	835	32.9	1443	56.8	2050	80.7	2658	104.6
304	12.0	911	35.9	1519	59.8	2126	83.7	2734	107.6
380	15.0	987	38.8	1595	62.8	2202	86.7	2810	110.6
456	18.0	1063	41.8	1671	65.8	2278	89.7	2885	113.6
532	20.9	1139	44.8	1747	68.8	2354	92.7	2961	116.6
608	23.9	1215	47.8	1823	71.8	2430	95.7	3037	119.6

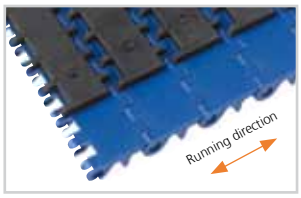
On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

Belt Weights

Belt material	**POM-DI**		**PP**		**PE-I**	
Pin material	**PA6.6**		**PA6.6**		**PA6.6**	
	kg/m²	**lb/ft²**	**kg/m²**	**lb/ft²**	**kg/m²**	**lb/ft²**
uni S-MPB C	8.3	1.70	5.6	1.14	5.7	1.18
uni S-MPB N	8.3	1.70	5.6	1.14	5.7	1.18
uni S-MPB NE	8.3	1.70	5.6	1.14	5.7	1.18
uni S-MPB C TAB	8.3	1.70	6.1	1.24	6.2	1.26
uni S-MPB C TAB Rubber Top	-	-	7.5	1.53	-	-
uni S-MPB 22% CS	7.0	1.43	4.7	0.96	4.7	0.98

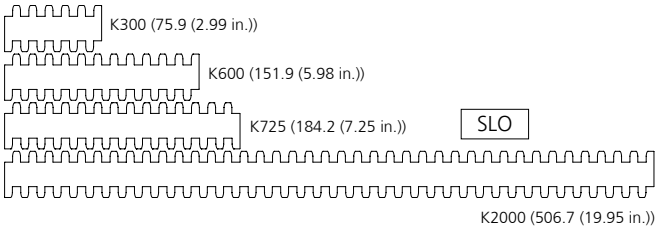
uni S-MPB Single Link®

uni S-MPB Single Link® |
uni S-MPB C TAB



uni S-MPB C TAB Rubber Top

uni S-MPB Single Link® is available in the following standard widths:



uni S-MPB SLO Standard Materials and Colors

uni S-MPB C	**POM-DI**	**W**			**PA6.6**	**N**
	PP	**W**			**PA6.6**	**N**
	PP	**B**			**PA6.6**	**D**
uni S-MPB C TAB	**POM-DI**	**W**			**PA6.6**	**N**
	PP	**W**			**PA6.6**	**N**
	PP	**B**			**PA6.6**	**D**
uni S-MPB C TAB Rubber Top	**PP**	**W**	**+03**	**N**	**PA6.6**	**N**
	PP	**B**	**+03**	**K**	**PA6.6**	**D**
uni S-MPB C Rubber Top	**PP**	**W**	**+03**	**N**	**PA6.6**	**N**
	PP	**B**	**+03**	**K**	**PA6.6**	**D**

Alternative pin materials and colors. See page 33.

uni S-MPB Single Link® Belt Widths

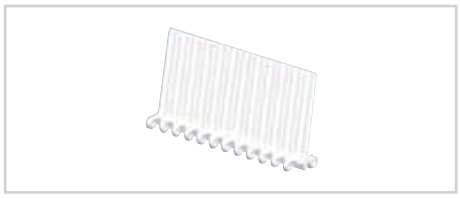
Belt type and widths	K300 75.9 mm (2.99 in.)	K600 151.9 mm (5.98 in.)	K725 184.2 mm (7.25 in.)	K2000 506.7 mm (19.95 in.)
uni S-MPB C	X	X	SLO	X
uni S-MPB N		X		
uni S-MPB NE				X
uni S-MPB C Rubber Top			SLO	
uni S-MPB C TAB			SLO	
uni S-MPB C TAB Rubber Top			SLO	
uni S-MPB 22% CS		X		

SLO = *Single Link only*

Accessoires | Product Support

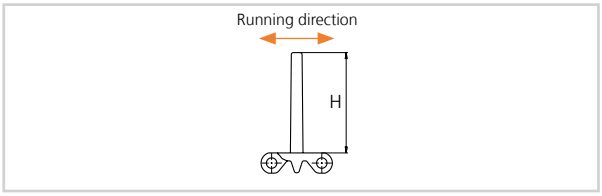
uni S-MPB Product Support Flat

uni S-MPB Product Support CS Flat

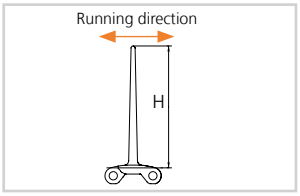


uni S-MPB Product Support 13% No Cling Drain

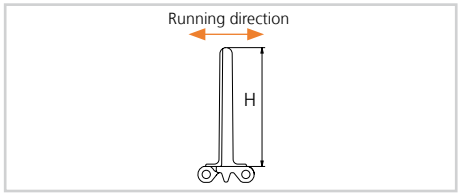
Dimensional Sketches



uni S-MPB Product Support Flat



uni S-MPB Product Support CS Flat



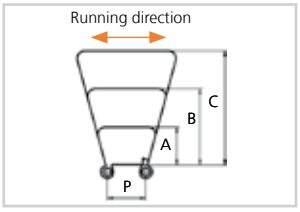
uni S-MPB Product Support 13% No Cling Drain

Standard Materials, Colors and Dimensions

Style	H		Width			Indent both sides		Standard materials and colors		
	mm	in.	Type	mm	in.	mm	in.	POM-D	PP-I	PE-I
uni S-MPB Product Suppot Flat	50.8	2.00	K2000	506.7	19.95	25.8	1.02	W	W B	N B
uni S-MPB Product Support CS Flat	76.2	3.00	K600	151.9	5.98	-	-	W	W B	N B
uni S-MPB Product Support 13% No Cling	76.2	3.00	K600	151.9	5.98	-	-	W	W B	N B

Accessories | Side Guard

Dimensional Sketch



Minimum indent to outside of side guards: 14.0 mm (0.55 in.).
Increment: 6.4 mm (0.25 in.).

uni S-MPB Side Guard

Dimensions

	mm	in.
A	25.4	1.00
B	50.8	2.00
C	76.2	3.00
P	25.4	1.00

Standard Materials and Colors:

PP-I	W	B

Permissible Tensile Strength

Belt material	POM-DI		PP		PE-I	
Pin material	PA6.6		PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni S-MPB C	23500	1610	9500	651	7850	538
uni S-MPB N	23500	1610	9500	651	7850	538
uni S-MPB NE	23500	1610	9500	651	7850	538
uni S-MPB C TAB	23500	1610	9500	651	7850	538
uni S-MPB C TAB Rubber Top	23500	1610	9500	651	7850	538
uni S-MPB 22% CS	20000	1370	8000	548	6600	452

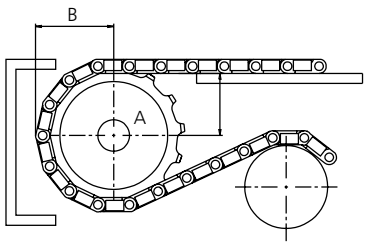
Standard Bi-directional Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	50.8	2.00	48.8	1.92	33.0	1.30	ø16.0/20.0*	ø0.63/0.79*	783PA6SMPB06221N00
8	66.4	2.61	65.6	2.58	50.0	1.97	ø16.0/40.0*	ø0.63/1.57*	783PA6SMPB08221N00
10	82.2	3.24	82.2	3.24	66.0	2.60	ø18.0/40.0*	ø0.71/1.57*	783PA6SMPB10221N00
12	98.1	3.86	98.6	3.88	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	783PA6SMPB12221LG00
15	122.2	4.81	123.1	4.85	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	783PA6SMPB15221N00
							sq 38.1	sq 1.50	783PA6SMPB15221N00I150S
							sq 40.0	sq 1.57	783PA6SMPB15221N00M040S
20	162.4	6.39	163.8	6.45	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	783PA6SMPB20221N00
							sq 40.0	sq 1.57	783PA6SMPB20221N00M040S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	30.8	1.21	16.9	0.67
8	38.5	1.52	25.6	1.01
10	46.4	1.83	34.0	1.34
12	54.4	2.14	42.3	1.67
15	66.4	2.61	54.6	2.15
20	86.5	3.41	75.1	2.96



Width of sprockets: 25.0 mm (0.98 in.)
Tooth width: 12.7 mm (0.50 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM-DI		PP		PE-I	
	N	lbf	N	lbf	N	lbf
uni S-MPB C	1100	247	500	112	500	112

Pitch 25.4 mm (1.00 in.)

uni SNB M2 – the unique Open Top and Rib Top Belt

The new uni SNB M2 20% (Closed hinges) offers improved cleanability combined with high strength properties. The flat surface of the uni SNB M2 20% allows for gentle transport of sensitive products and an open surface for airflow or drainage. The uni SNB M2 belt may be used with uni SNB M2 Single Link® mold-to-width chains in de-combiners or combiners to increase conveyor speed and product throughput. The uni SNB M2 34% (Radius Top Surface) is unique in dry accumulation applications.

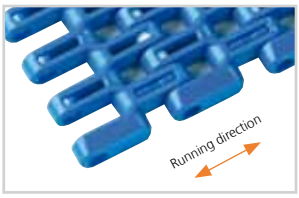
The uni SNB M2 belt increases performance in the following industries/applications:

- Meat applications including microwaves, cooling and freezing lines
- Fruit & vegetable applications including de-watering lines, cooling and freezing lines
- Pasta applications including blanchers, pasteurizers and cooling lines
- Beverage applications including accumulating tables, infeed to packaging, pasteurizers and palletizers
- Can manufacturing applications including accumulation tables, mass handling and palletizers

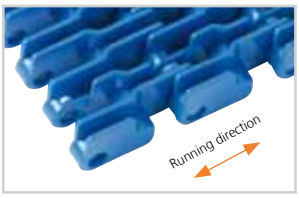
Product features and operational benefits:

- Less friction and product contact for easy cooking, cooling and freezing of products
- Radius top surface reducing back line pressure with up to 70%
- Reduced dirt and oxide build up thanks to self cleaning surface
- Unique lockpin locking system enabling easy assembly and less downtime
- Finger plates for trouble free transfer

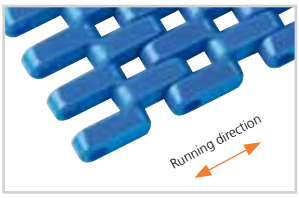
Standard Selection



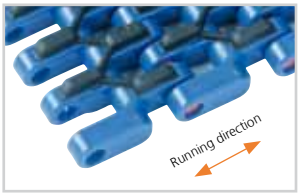
uni SNB M2 34%



uni SNB M2 34% Rib

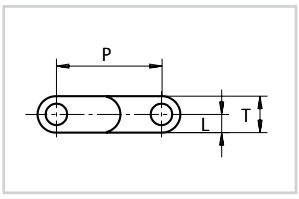


uni SNB M2 20%

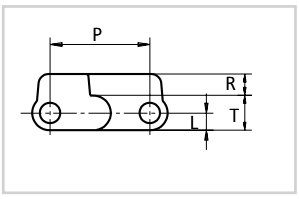


uni SNB M2 20% Rubber Top

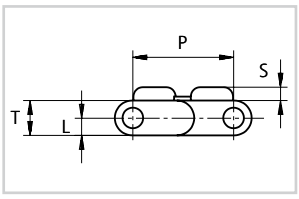
Dimensional Sketches



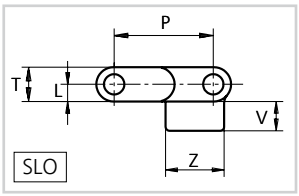
uni SNB M2 34%
uni SNB M2 20%



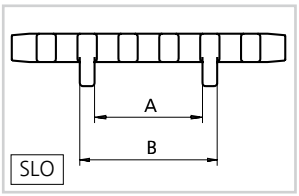
uni SNB M2 34% Rib



uni SNB M2 20% Rubber Top



uni SNB M2 34% TAB



uni SNB M2 20% TAB

Dimensions

	mm	in.
A	33.5	1.19
B	42.7	1.68
L	4.4	0.17
P	25.4	1.00
T	8.8	0.35
R	5.5	0.22
S	3.4	0.13
V	7.5	0.29
Z	15.0	0.59

SLO = *Single Link only*

Straight running

25.4 mm (1.00 in.)

ø5 mm (0.20 in.)

Patented

See page 8

30 mm (1.2 in.)

See page 44

See page 172

03 **K** **N** See page 12

Alternatives

Round Pin only for uni SNB M2 34% and uni SNB M2 34% Rib. Not 20% belt surface opening.

PP **W** **PE** **W**
PA6.6 **B** **SS304** **PBT** **LG**

PP **B** **G** **W**

PBT **LG**

Accessories

See page 43

See page 42

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni SNB M2 34%	POM-D B	PA6.6 D
	PP B G	PA6.6 D
	PP W	PA6.6 N
	PE N	PA6.6 N
	PE B	PA6.6 D
uni SNB M2 20%	POM-D B	PA6.6 D
	PP B	PA6.6 D
	PP W	PA6.6 N
	PE N	PA6.6 N
	PE B	PA6.6 D
uni SNB M2 34% Rib	POM-SLF B	PA6.6 D
	PP B	PA6.6 D
uni SNB M2 20% Rubber Top	PP B + 03 K	PA6.6 D
	PP W + 03 N	PA6.6 N

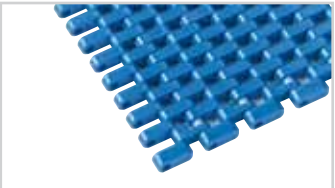
Alternative pin materials and colors: See page 39.

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

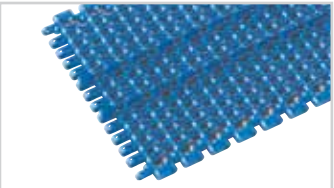
mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	836	32.9	1596	62.8	2356	92.8
152	6.0	912	35.9	1672	65.8	2432	95.7
228	9.0	988	38.9	1748	68.8	2508	98.7
304	12.0	1064	41.9	1824	71.8	2584	101.7
379	14.9	1140	44.9	1900	74.8	2660	104.7
456	18.0	1216	47.9	1976	77.8	2736	107.7
532	20.9	1292	50.9	2052	80.8	2812	110.7
608	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

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

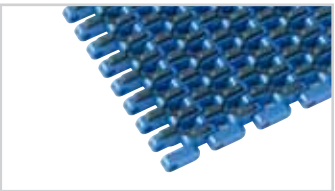
uni SNB M2 Single Link®



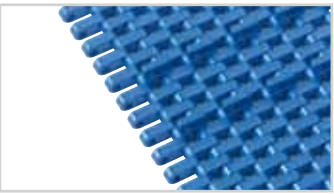
uni SNB M2 20%
uni SNB M2 20% TAB



uni SNB M2 34% TAB

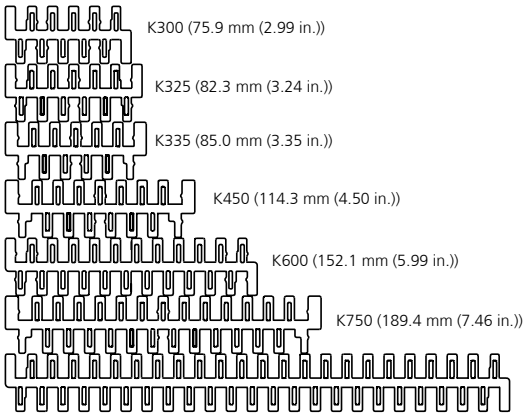


uni SNB M2 20% Rubber Top
uni SNB M2 20% TAB Rubber Top



uni SNB M2 20% TAB

uni SNB M2 Single Link® is available in the following standard widths:



uni SNB M2 Single Link® standard materials and colors see page 39

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni SNB M2 34 TAB	**POM-D** B	PA6.6 D
	PP B	PA6.6 D
uni SNB M2 20%	**POM-D** B	PA6.6 D
	PP B	PA6.6 D
uni SNB M2 20% TAB	**POM-D** B	PA6.6 D
	PP B	PA6.6 D
uni SNB M2 20% Rubber Top	**PP** B + 03 K	PA6.6 D
uni SNB M2 20% TAB Rubber Top	**PP** B + 03 K	PA6.6 D

Alternative pin materials and colors. See page 39.

uni SNB M2 Single Link® Belt Widths

Belt type and widths	K300	K325	K335	K450	K600	K750	K1200
uni SNB M2 34%	X				X		X
uni SNB M2 34% TAB		SLO	SLO	SLO	SLO	SLO	
uni SNB M2 34% Rib	X				X		
uni SNB M2 20%	X				X	SLO	
uni SNB M2 20% TAB						SLO	
uni SNB M2 20% Rubber Top	X1/				X1/	SLO2/	
uni SNB M2 20% TAB Rubber Top						SLO2/	

SLO = *Single Link only*

1/ Indent: 7.5 mm (0.30 in.)
2/ Indent: 36.4 mm (1.43 in.)

Belt Weights

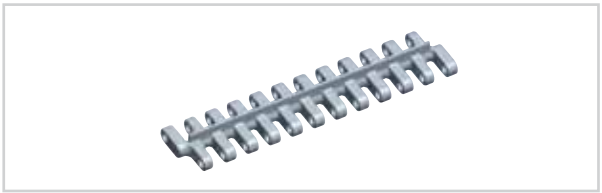
Belt material	POM-D		PP		PE	
Pin material	PA6.6		PA6.6		PA6.6	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni SNB M2 34%	6.3	1.29	4.3	0.88	4.4	0.90
uni SNB M2 34% Rib	8.9	1.82	5.5	1.13	-	-
uni SNB M2 20%	7.2	1.47	4.9	1.00	5.1	1.04
uni SNB M2 20% Rubber Top	-	-	5.9	1.21	-	-

Permissible Tensile Strength

Belt material	POM-D		PP		PE	
Pin material	PA6.6		PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni SNB M2 34%	23500	1610	15000	1028	10000	685
uni SNB M2 34% Rib	23500	1610	15000	1028	-	-
uni SNB M2 20%	23500	1610	15000	1028	10000	685
uni SNB M2 20% Rubber Top	-	-	15000	1028	-	-

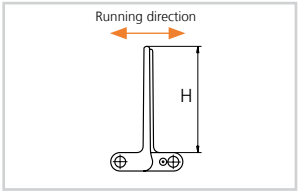
Accessories | Product Support

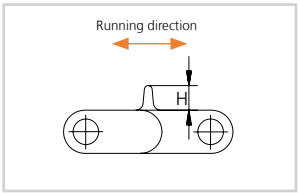
uni SNB M2 20%
Product Support
No Cling on one side and Flat on the other side.



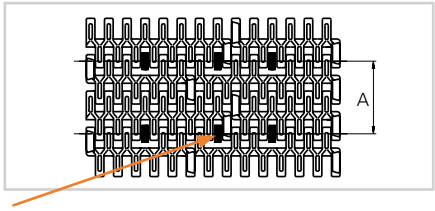
uni SNB M2 20% Product Support Micro
Indent: 7 mm (0.28 in.)

Dimensional Sketch





MTO Selection
uni SNB M2 with Rollers



Roller
ø12 x 5.5 mm (ø0.5 x 0.2 in.)

Dimensions

	mm	in.
A min.	50.8	2.00

Standard Materials

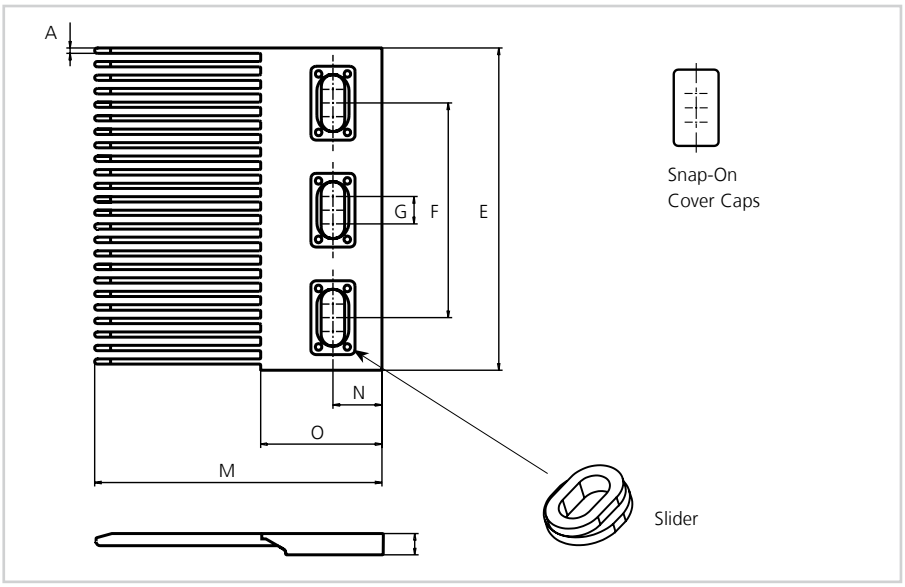
POM-D, PP, PA6.6 and
Roller Material POM-D

Standard Materials, Colors and Dimensions

Style	H		Width			Standard materials & colors	
	mm	in.	Type	mm	in.	PP	PE
Product Support Micro	5.0	0.20	K600	151.9	5.98	B W	N B
Product Support Flat/No Cling	25.4*	1.00*	K600	152.1	5.99	B W	N B
Product Support Flat/No Cling	50.8	2.00	K600	152.1	5.99	B W	N B
Product Support Flat/No Cling	76.2	3.00	K600	152.1	5.99	B W	N B
Product Support Flat/No Cling	101.6	4.00	K600	152.1	5.99	B W	N B

** Product Support on 1 in. (25.4 mm) are cut down from 2 in. (50.8 mm).*

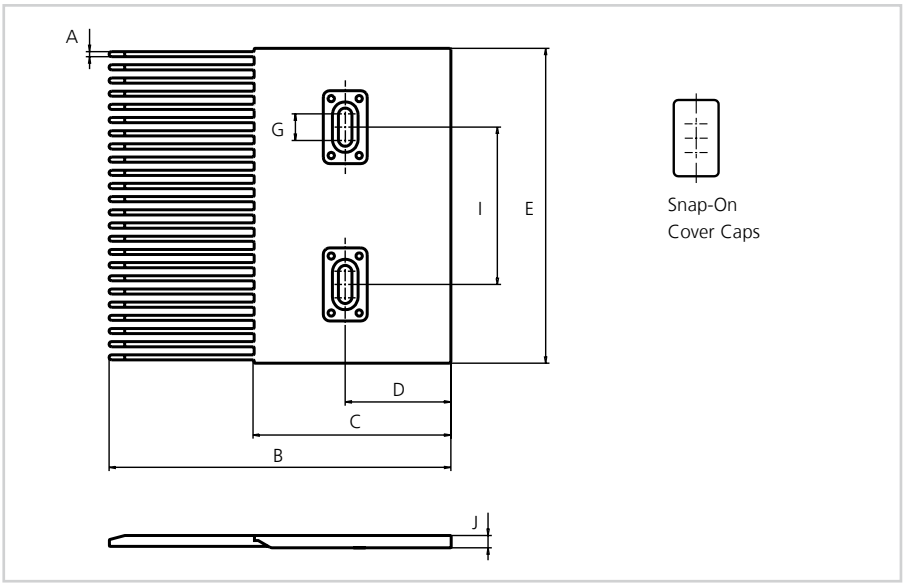
Accessories | Finger Plate



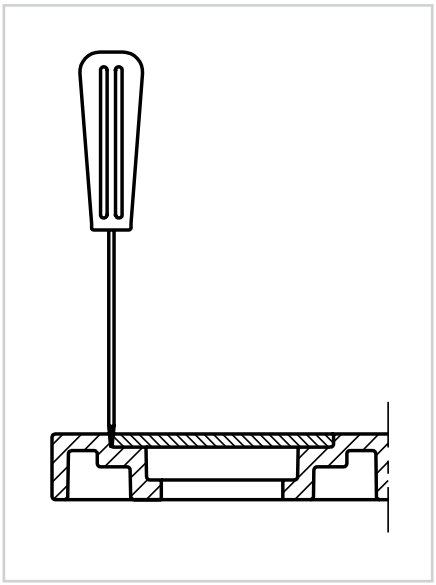
uni SNB M2 Finger Plate Type 2

Dimensions

	mm	in.
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



uni SNB M2 Finger Plate Type 2S



All uni-chains belt systems are available in a raised rib version can be supplied with matching finger plates, also called combs. The finger plates are supplied with cover caps which can be attached when the finger plate has been installed. The cover caps may be removed by using a screwdriver that can be inserted between the cover and finger plates.

In order to adjust to belt width variations caused by temperature fluctuations, a slider facilitates the sideways movement of the finger plates (finger plate type 2).

Standard Material and Color

POM-EC **K**

Only available in POM-EC black

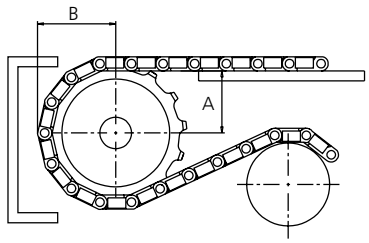
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	82.2	3.24	86.5	3.41	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	753PA6SNB210211LG00
							sq 38.1	sq 1.50	753PA6SNB210211LG00
							sq 40.0	sq 1.57	753PA6SNB210211N00M040S
12	98.1	3.86	103.2	4.06	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	753PA6SNB212211LG00
							sq 38.1	sq 1.50	753PA6SNB212211N00I150S
							sq 40.0	sq 1.57	753PA6SNB212211N00M040S
18	146.3	5.76	152.7	6.01	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	753PA6SNB218211LG00
							sq 38.1	sq 1.50	753PA6SNB218211N00I150S
							sq 40.0	sq 1.57	753PA6SNB218211N00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	753PA6SNB218211N01
							sq 60.0	sq 1.57	753PA6SNB218211LG00M060S
							sq 63.5	sq 2.50	753PA6SNB218211N00I250S
19	154.3	6.07	160.9	6.33	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	753PA6SNB219211N00
							sq 38.1	sq 1.50	753PA6SNB219211LG00I150S
							sq 40.0	sq 1.57	753PA6SNB219211N00M040S
					120.0	4.72	ø40.0/70.0	ø1.57/2.76	753PA6SNB219211N01
							sq 60.0	sq 2.36	753PA6SNB219211N00M060S
20	162.4	6.39	169.1	6.66	65.0	2.56	sq 38.1	sq 1.50	753PA6SNB220211N00I150S
							sq 40.0	sq 1.57	753PA6SNB220211N00M040S
					120.0	4.72	ø40.0/70.0	ø1.57/2.76	753PA6SNB220211N00
							sq 63.5	sq 2.50	753PA6SNB220211N00I250S
							sq 60.0	sq 2.36	753PA6SNB220211N00M060S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	45.5	1.79	34.7	1.37
12	53.5	2.11	43.0	1.69
18	77.6	3.06	67.6	2.66
19	81.6	3.21	71.7	2.82
20	85.6	3.37	75.8	2.98



Width of sprockets: 25.0 mm (0.98 in.)
Tooth width: 6.0 mm (0.24 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni SNB M2	1400	315	1100	247

Pitch 25.4 mm (1.00 in.)

uni QNB – strong and reliable

The uni QNB is developed with focus on optimizing strength, regidity and wear life. The belt is unique thanks to its strength and reliability. The chamfered edges provide easy side transfer and eliminate catch points.

The uni QNB belt has increased performance in the following industries/applications:

- Bakery applications including pan handling and incline/decline box or pan applications
- Meat or poultry applications including packaging lines and incline box conveyors
- Beverage applications including depalletizers, accumulation tables and incline case conveyors
- Can manufacturing applications including palletizers, mass handling and accumulation tables
- Corrugated applications including downstacker, corrugator take off, transfer car and WIP storage
- Tire applications including wigwag, extruder takeaway and inspection applications
- Material handling applications including incline applications, palletizers and packaging lines

Product features and operational benefits:

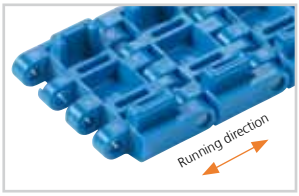
- Strong, bi-directional belt for long conveyors
- Rough Top non-slip surface for increased worker safety
- Unique locking system for easy maintenance
- Unique sprocket engagement reducing pulsation and increasing load capacity
- Unique Rubber Top eliminating wear and increasing friction properties on incline/decline applications

Standard Selection

uni QNB C

uni QNB Rough

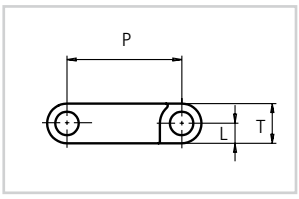
uni QNB Rubber Top



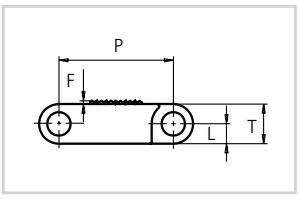
uni QNB C TAB K150/200

Dimenisonal sketches for Rubber Top see page 50.

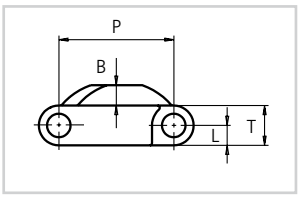
Dimensional Sketches



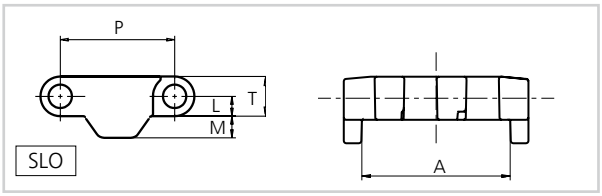
uni QNB C



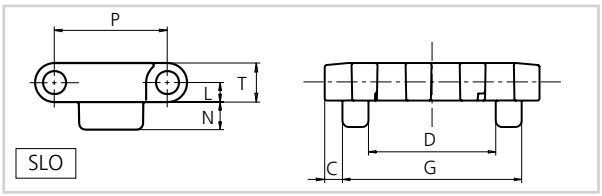
uni QNB Rough



uni QNB Rubber Top



uni QNB C TAB 150



uni QNB C TAB K200

Dimensions

	mm	in.		mm	in.		mm	in.
A	30.3	1.19	**F**	0.8	0.03	**N**	6.2	0.24
B	4.5	0.18	**G**	42.1	1.66	**P**	25.4	1.00
C	4.2	0.17	**L**	4.4	0.17	**T**	8.8	0.35
D	29.9	1.18	**M**	4.8	0.19	**-**	-	-

SLO = *Single Link only*

Straight running

25.4 mm (1.00 in.)

ø5 mm (0.20 in.)

Patent pending

See page 8

40 mm (1.6 in.)

See page 49

See page 172

03 **K** See page 12

Alternatives

PP W **PE** W **PBT** LG
PA6.6 B SS304

PA6.6 N **PBT** LG

PA6.6 D

PP D

Accessories

See page 50

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni QNB C	**POM-SLF** B	PA6.6 D
	PP B W	PA6.6 D
uni QNB Rough	**POM-SLF** B	PA6.6 D
uni QNB Rubber Top	**PP** B + 03 K	PA6.6 D
uni QNB C K150 | C TAB K150	**POM-SLF** B	PA6.6 D
	PP B	PA6.6 D
uni QNB C K200 | C TAB K200	**POM-SLF** B	PA6.6 D
	PP B	PA6.6 D

Alternative pin materials and colors. See page 46.

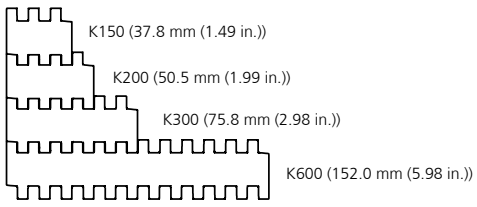
Standard Bricklayed Belt Widths (See below for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
38	1.5	381	15.0	839	33.0	1296	51.0	1754	69.0	2211	87.1	2669	105.1
51	2.0	458	18.0	915	36.0	1372	54.0	1830	72.0	2288	90.1	2745	108.1
76	3.0	534	21.0	991	39.0	1449	57.0	1906	75.1	2364	93.1	2821	111.1
153	6.0	610	24.0	1068	42.0	1525	60.0	1983	78.1	2440	96.1	2898	114.1
229	9.0	686	27.0	1144	45.0	1601	63.0	2059	81.1	2516	99.1	2974	117.1
305	12.0	763	30.0	1220	48.0	1678	66.0	2135	84.1	2593	102.1	3050	120.1

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni QNB Single Link®

uni QNB Single Link® is available in the following standard widths:



uni QNB Single Link® standard materials and colors see above

uni QNB Single Link® Belt Widths

Belt type and widths	K150 37.8 mm (1.49 in.)	K200 50.5 mm (1.99 in.)	K300 75.8 mm (2.98 in.)	K600 152.0 mm (5.98 in.)
uni QNB C	SLO	SLO	X	X
uni QNB C TAB	SLO	SLO		
uni QNB Rough			X	X
uni QNB Rubber Top			X	X

SLO = *Single Link only*

Belt Weights

Belt material	POM-SLF		PP	
Pin material	PA6.6		PA6.6	
	kg/m²	lb/ft²	kg/m²	lb/ft²
uni QNB C | uni QNB Rough	8.4	1.72	5.4	1.11
uni QNB Rubber Top	-	-	7.0	1.43

Weights

Belt material	POM-SLF		PP	
Pin material	PA6.6		PA6.6	
	kg/m	lb/ft	kg/m	lb/ft
uni QNB C K150	0.6	0.40	0.4	0.27
uni QNB C TAB K150	0.5	0.34	0.4	0.27
uni QNB C K200	0.6	0.40	0.4	0.27
uni QNB C TAB K200	0.6	0.40	0.4	0.27

Permissible Tensile Strength

Belt material	POM-SLF		PP	
Pin material	PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft
uni QNB C | uni QNB Rough	35000	2398	20000	1370
uni QNB Rubber Top	-	-	20000	1370

Permissible Tensile Strength

Belt material	POM-SLF		PP	
Pin material	PA6.6		PA6.6	
	N	lbf	N	lbf
uni QNB C | uni QNB C TAB K150	1000	225	580	130
uni QNB C | uni QNB C TAB K200	1500	337	860	193

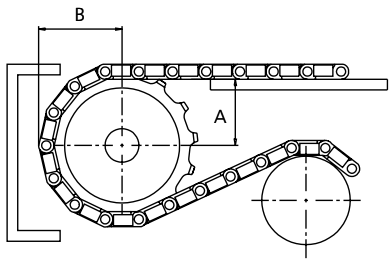
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	82.2	3.24	80.3	3.16	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	143PA6QNB10211LG00
							sq 38.1	sq 1.50	143PA6QNB10211N00I150S
							sq 40.0	sq 1.57	143PA6QNB10211LG00M040S
12	98.1	3.86	96.8	3.81	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	143PA6QNB12211LG00
							sq 38.1	sq 1.50	143PA6QNB12211N00I150S
							sq 40.0	sq 1.57	143PA6QNB12211N00M040S
15	122.2	4.81	121.5	4.78	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	143PA6QNB15211N00
							sq 38.1	sq 1.50	143PA6QNB15211N00I150S
							sq 40.0	sq 1.57	143PA6QNB15211N00M040S
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76*	143PA6QNB15211N01
							sq 63.5	sq 2.50	143PA6QNB15211LG01I250S
					104.0	4.09	sq 60.0	sq 2.36	143PA6QNB15211N00M060S
18	146.3	5.76	146.1	5.75	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	143PA6QNB18211N00
							sq 38.1	sq 1.50	143PA6QNB18211N00I150S
							sq 40.0	sq 1.57	143PA6QNB18211N00M040S
					120.0	4.72	ø40.0/ø70*	ø1.57/2.76*	143PA6QNB18211N01
							sq 63.5	sq 2.50	143PA6QNB18211N00I250S
					104.0	4.09	sq 60.0	sq 2.36	143PA6QNB18211N00M060S
19	154.3	6.07	154.2	6.07	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	143PA6QNB19211N00
							sq 38.1	sq 1.50	143PA6QNB19211N00I150S
							sq 40.0	sq 1.57	143PA6QNB19211N00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	143PA6QNB19211LG00
							sq 60.0	sq 2.36	143PA6QNB19211LG00M060S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	45.5	1.79	34.7	1.37
12	53.5	2.11	43.0	1.69
15	65.5	2.58	55.3	2.18
18	77.5	3.05	67.6	2.66
19	81.6	3.21	71.7	2.82



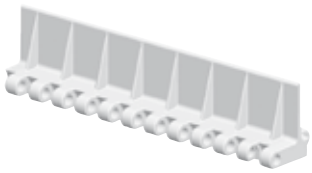
Width of sprockets: 25.0 mm (0.98 in.)
Tooth width: 10.0 mm (0.39 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

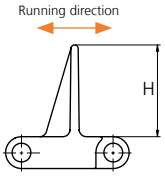
Belt material	POM-SLF		PP	
	N	lbf	N	lbf
uni QNB	2300	517	1300	292

Accessories | Product Support



uni QNB Product Support

Dimensional Sketch



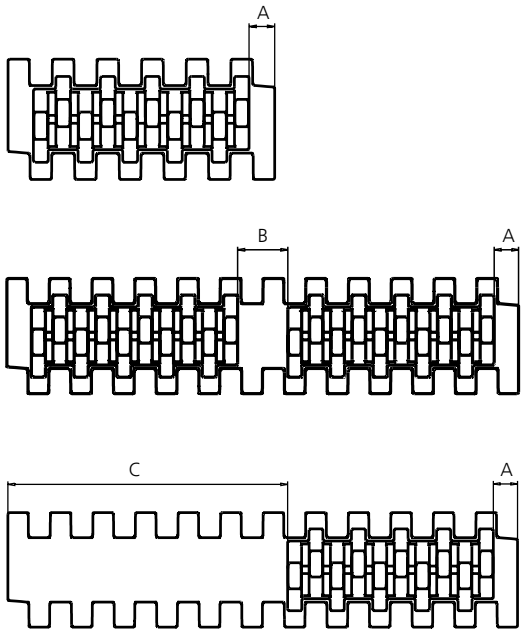
uni QNB Product Support

Minimum bricklayed indent is for uni QNB product support 25.4 mm (1.00 in.).
Increment: 25.4 mm (1.00 in.).

Standard Materials, Colors and Dimensions

H		Width			Standard materials & colors	
mm	in.	Type	mm	in.	POM-SLF	PP-I
25.4	1.00	K600	152.0	5.98	B	B W

Dimensional Sketches for Rubber Top



Dimensions

	mm	in.
A	7.3	0.29
B	14.9	0.58
C	83.5	3.29

Pitch 27.9 mm (1.10 in.)

uni OWL – the heat and wear resistant belt with minimal friction surface

uni OWL 1.1 in. pitch belt is created for applications requiring large open area.

Together with the material properties the open belt design with minimal contact surface provides heat resistance, easy plastic film release and good airflow.

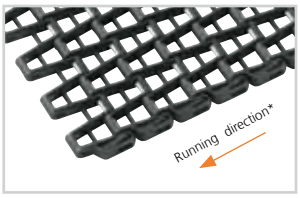
The uni OWL belt has improved performance in the following industries/applications:

- Shrinking tunnels without the need for lubrication and without black wear debris
- Bakery industries, including cooling lines
- Fruit and vegetables application including dewatering and cooling lines

Product features and operational benefits:

- Minimal friction and contact between product and belt
- Large open area for easy drainage/airflow (66% open belt)
- Special material allows operating temperature of 180°C (356°F) and makes the belt resist peak temperature up to 230°C (446°F)
- Patented nonstick belt surface

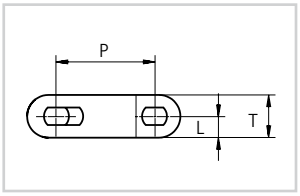
Standard Selection



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

uni OWL
Surface opening 66%

Dimensional Sketch



uni OWL

Dimensions

	mm	in.
P	27.9	1.10
L	5.5	0.22
T	11.0	0.43

Straight running

27.9 mm (1.10 in.)

ø4.0 mm (0.16 in.)

Materials See page 8

40 mm (1.57 in.)

See page 54

See page 172

Alternatives

PA6.6 B

Standard Materials and Colors

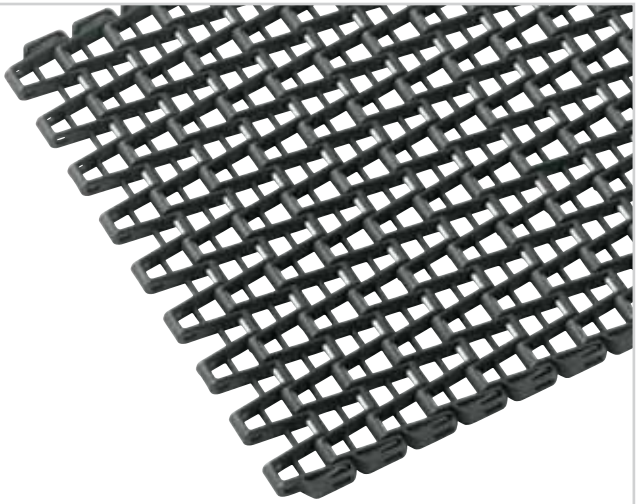
Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni OWL	**PA6.6 GFH** K B	SS304	**PA6.6 GFH** K B
	PP W B	**PBT** LG	**PP** W B
Alternative pin materials and colors:		**PA6.6** B	

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.
305	12.0	645	25.4	984	38.7	1323	52.1
339	13.3	679	26.7	1018	40.1	1357	53.4
373	14.7	713	28.1	1052	41.4	1391	54.8
407	16.0	746	29.4	1085	42.7	1425	56.1
441	17.4	780	30.7	1120	44.1	1459	57.4
475	18.7	814	32.0	1154	45.4	1493	58.8
509	20.0	848	33.4	1188	46.8	1527	60.1
543	21.4	882	34.7	1222	48.1	1561	61.5
577	22.7	916	36.1	1255	49.4	1595	62.8
611	24.1	950	37.4	1289	50.7	1629	64.1

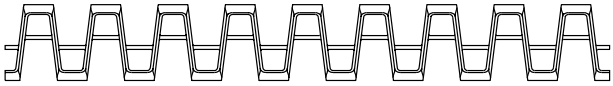
Note: Above widths are belts in PA6.6 GFH. In PP material the belt width is 1% smaller.
On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni OWL Single Link®



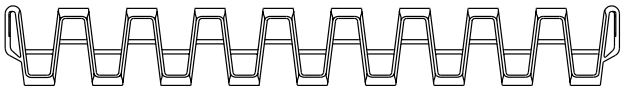
uni OWL Single Link® is available in the following standard widths:

Center module are used in the middle of the belt.



PA6.6 GFH: K1200 (305.4 mm (12..02 in.))
PP: K1200 (302.5 mm (11.91 in.))

The Both link is split in two and used as the outer part of the belt.



PA6.6 GFH: K1200 (305.2 mm (12..02 in.))
PP: K1200 (302.2 mm (11.90 in.))

uni OWL Single Link® standard materials and colors see page 52.

uni OWL Single Link® Belt Widths

Belt type and widths	K1200 Center		K1200 Both	
	PA6.6 GFH 305.4 mm (12.02 in.)	**PP** 302.5 mm (11.91 in.)	**PA6.6 GFH** 305.2 mm (12.02 in.)	**PP** 302.2 mm (11.90 in.)
uni OWL	X	X	X	X

Belt Weights

Belt material	**PA6.6 GFH**		**PP**	
Pin material	**SS**		**PBT**	
	kg/m²	**lb/ft²**	**kg/m²**	**lb/ft²**
uni OWL	7.7	1.58	4.6	0.94

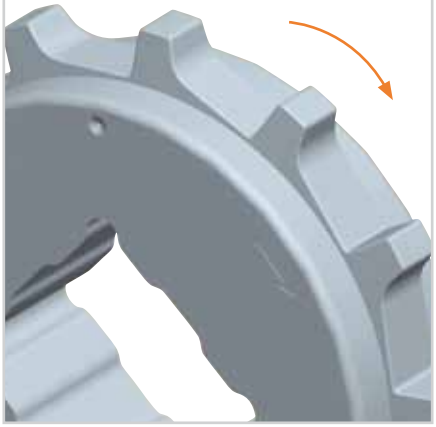
Permissible Tensile Strength

Belt material	**PA6.6 GFH**		**PP**	
Pin material	**SS**		**PBT**	
	N/m	**lbf/ft**	**N/m**	**lbf/ft**
uni OWL	12000	822	8000	548

Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
9	81.7	3.22	83.4	2.05	-	-	ø18.0/40.0	ø0.71/1.57	663PA6OWL09111N00
							sq 25.4	sq 1.00	663PA6OWL09111N00I100S
							sq 30.0	sq 1.18	663PA6OWL09111N0M030S
11	99.4	3.91	101.9	4.01	-	-	ø18.0/50.0	ø0.71/1.97	663PA6OWL11111N00
							sq 38.1	sq 1.50	663PA6OWL11111N00I150S
							sq 40.0	sq 1.57	663PA6OWL11111N00M040S
13	117.2	4.61	120.2	4.73	-	-	ø18.0/70.0	ø0.71/2.76	663PA6OWL13111N00
							sq 38.1	sq 1.50	663PA6OWL13111N00I150S
							sq 40.0	sq 1.57	663PA6OWL13111N00M040S
15	135.0	5.31	138.4	5.45	-	-	ø18.0/70.0	ø0.71/2.76	663PA6OWL15111N00
							sq 38.1	sq 1.50	663PA6OWL15111N00I150S
							sq 40.0	sq 1.57	663PA6OWL15111N00M040S
							sq 50.8	sq 2.00	663PA6OWL15111N00I200S

Width of sprockets: 30.0 mm (1.18 in.)
Tooth width: 12.5 mm (0.49 in.)
Standard material: PA6

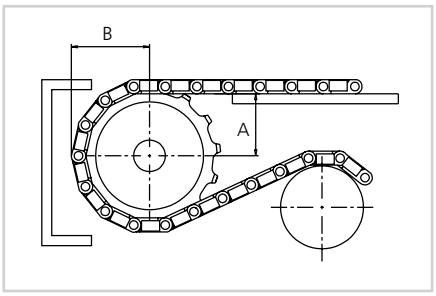


Other sprocket sizes are available upon request.

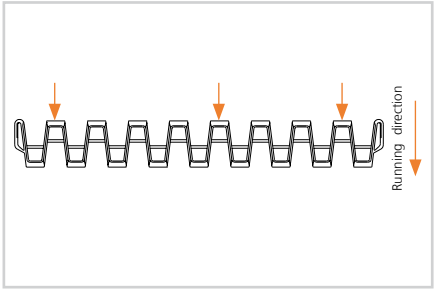
Two-part sprockets are available upon request.

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
9	46.7	1.84	32.85	1.29
11	55.5	2.18	42.0	1.65
13	64.3	2.53	51.1	2.01
15	73.2	2.88	60.1	2.37



Placing of Sprockets



Max. Load per Sprocket

Belt material	PA6.6 GFH		PP	
	N	lbf	N	lbf
uni OWL	1200	270	800	180

Pitch 38.1 mm (1.50 in.)

uni Flex ONE – strong, cleanable and tight radius sideflexing belt

uni Flex ONE 1.5 in. pitch is created to optimize throughput in high volume operations with space limitations. The belt is unique because of its pinless design and a higher tensile strength. No other sideflexing belts in the market may compete with uni Flex ONE on straight.

The uni Flex ONE belt will increase performance in the following industries/applications:

- Meat & poultry applications including tray pack conveyors, box/tote handling, freezers infeed/outfeed and other side flexing applications
- Fruit & vegetable applications including sideflexing and packaging lines
- Bakery applications including cooling lines, pan handling, proofers and oven infeed and takeaway
- Beverage applications including case conveyors and incline/decline applications
- Spiral applications including low and high tension spirals

Product features and operational benefits:

- High speed sideflexing applications
- Tight radius applications providing reduced space requirements
- uni Snap Link® design (pinless) preventing no pin walking
- Unique safety top surface
- Edge Wearparts for higher speed and load
- Edge Roller Bearings for higher speed, load and no lubrication
- Integrated Wearparts for cleanable applications
- Easy maintenance with uni Snap Link® Design (pinless)

Standard Selection

uni Flex ONE O

uni Flex ONE EO

uni Flex ONE EW

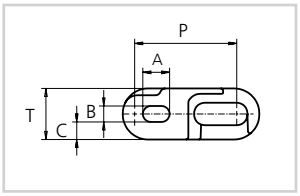
uni Flex ONE ER

uni Flex ONE EOO

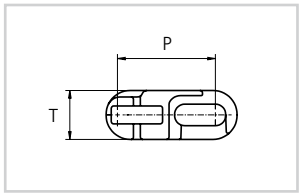
**uni-chains recommends this travel direction. However, travel in both directions is possible.*

Note: uni Flex ONE ER is not available for use in North America.

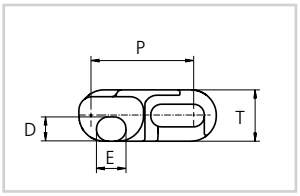
Dimensional Sketches



uni Flex ONE O (EO)



uni Flex ONE for EO | EOO | EW | ER



uni Flex ONE EOO

Exchangeable parts: O-Tabs (EO), Offset O-Tabs (EOO), Wearparts (EW), Edge Rollers (ER).

Dimensions

	mm	in.
A	10.0	0.39
B	5.9	0.23
C	6.6	0.26
D	9.0	0.35
E	11.0	0.43
P	38.1	1.50
T	19.1	0.75

Sideflexing

38.1 mm (1.50 in.)

Patent pending

See page 8

50 mm (1.97 in.)

See pages 64 and 65

See page 172

See page 66

See page 65 and 66

Standard Materials and Colors

Type	Standard materials and colors
uni Flex ONE	**POM-SX** W B *

Exchangeable O-Tab, wearpart in POM-DK: O

** Please note that uni Flex ONE in POM-SX blue is not according to the standard color quality for blue. Small variations may occur.*

uni Flex ONE O (O-Tab):
Using the uni Flex ONE with O-Tab and a slotted wearstrip, the O-Tab will allow the transported products to be wider than the belt. O-Tabs are molded into the belt to ensure cleanability and are preferred for direct food contact.

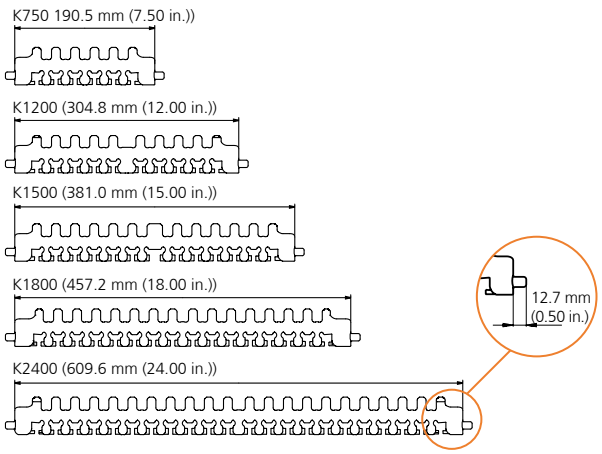
uni Flex ONE EO/EOO (Exchangeable O-Tab/ Exchangeable Offset O-Tab):
Exchangeable O-Tab system is made of heat and wear resistant material to improve performance between the belt edge and the wearstrip. Using a slotted wearstrip the exchangeable O-Tab will track the belt and allow the transported products to be wider than the belt. Resists high curve load at increased speed.

uni Flex ONE EW (Exchangeable Wearpart):
Exchangeable Wearpart system is made of heat and wear resistant material to improve performance between the belt edge and the wearstrip. This Wearpart can easily be replaced. Resists high curve load at increased speed.

uni Flex ONE ER (Exchangeable Edge Roller):
uni Flex ONE with Exchangeable Edge Rollers reduces friction in curves to a minimum making it very suitable for applications with many curves e.g. static spirals (non rotating drum) or high speed sideflexing conveyors.

uni Flex ONE Single Link®

uni Flex ONE Single Link® is available in the following standard widths:



uni Flex ONE Single Link® standard materials and colors see page 56.

Standard Single Link® Belt Widths

Belt type and widths	K750	K1200	K1500	K1800	K2400
uni Flex ONE O	X	X	X	X	X
uni Flex ONE EW	X	X	X	X	X
uni Flex ONE EO/EOO	X	X	X	X	X
uni Flex ONE ER L/R*	X	X	X	X	X

** L/R = L (left)/R (right). When ordering, please specify Belt Edge Configuration on opposite side of edge roller (e.g. uni Flex ONE ER/EO = ER on left side and EO on right side - uni Flex ONE EW/ER = EW on left side and ER right side).*

Permissible Tensile Strength

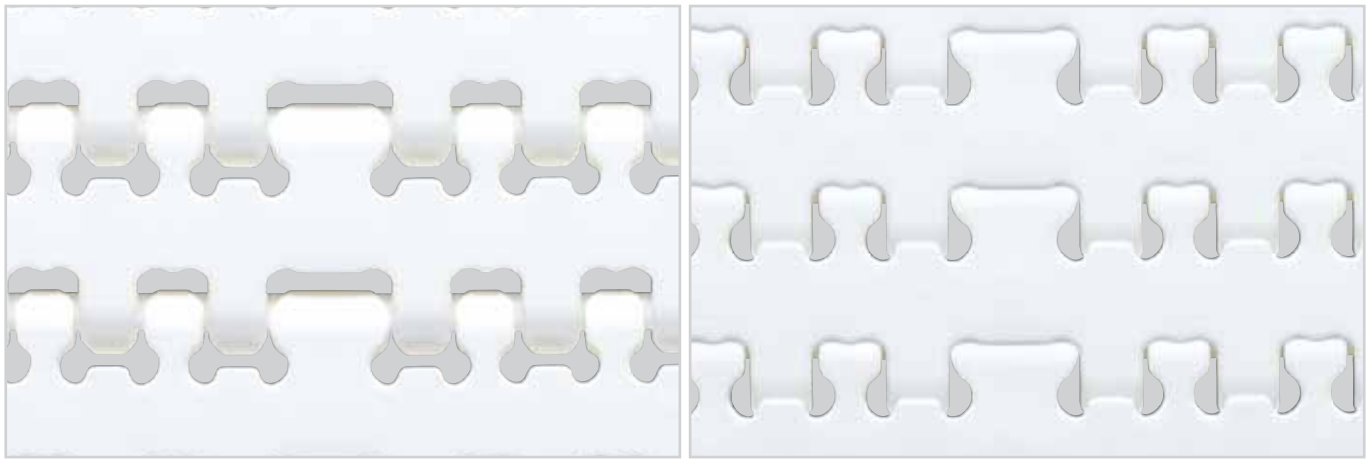
Assortment		Belt width W	Max. permissible load on straight section		Max. permissible load in curves at low speed*			
					UHMW PEHD 1000		Nylatron NSM	
		Size	N	lbf	N	lbf	N	lbf
uni Flex ONE	O	K750	2400	540	1800	405	2000	450
	EW	K750	2400	540	1800	405	2000	450
	EO/EOO	K750	2400	540	1800	405	2000	450
	ER	K750	2400	540	2000	450	2000	450
uni Flex ONE	O	K1200	4000	899	2700	607	3400	764
	EW	K1200	4000	899	2700	607	3400	764
	EO/EOO	K1200	4000	899	2700	607	3400	764
	ER	K1200	4000	899	3400	764	3400	764
uni Flex ONE	O	K1500	6400	1439	2800	629	3500	787
	EW	K1500	6400	1439	2800	629	3500	787
	EO/EOO	K1500	6400	1439	2800	629	3500	787
	ER	K1500	6400	1439	3500	787	3500	787
uni Flex ONE	O	K1800	8200	1843	2900	652	3600	810
	EW	K1800	8200	1843	2900	652	3600	810
	EO/EOO	K1800	8200	1843	2900	652	3600	810
	ER	K1800	8200	1843	2900	652	3600	810
uni Flex ONE	O	K2400	12000	2698	3200	719	3800	854
	EW	K2400	12000	2698	3200	719	3800	854
	EO/EOO	K2400	12000	2698	3200	719	3800	854
	ER	K2400	12000	2698	3800	854	3800	854

** Valid at 20° C (+ 68° F). Material for all types of uni Flex ONE: POM-SX.*

Surface Opening

Belt width	Opening at straight running belt	Opening min. flex ratio = 1.6
K750	13%	12%
K1200	13%	12%
K1500	15%	11%
K1800	16%	11%
K2400	17%	11%

Compression



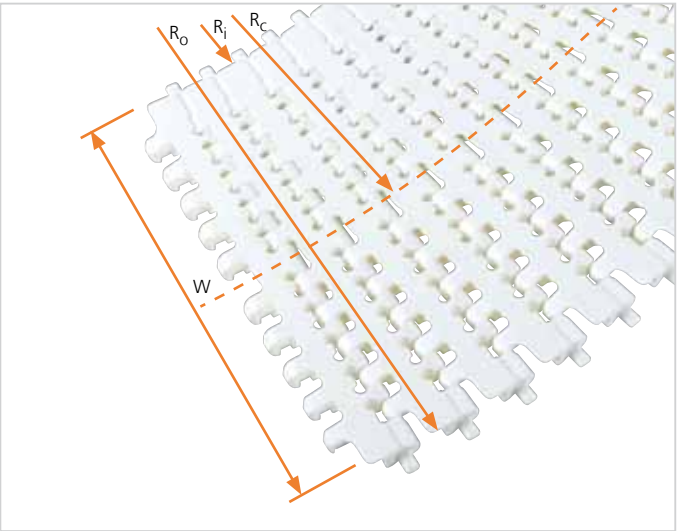
Compression rate is 23% (e.g. 1 meter (3.28 ft) of belt can compress 0.23 m (0.75 ft) to a length of 0.77 m (2.53 ft).

Belt Weights

Assortment	POM-SX				
	Size	mm	in.	kg/m	lb/ft
uni Flex ONE O	K750	190.5	7.50	2.5	1.68
uni Flex ONE EW	K750	190.5	7.50	2.4	1.61
uni Flex ONE EO/EOO	K750	190.5	7.50	2.5	1.68
uni Flex ONE ER-/L/R*	K750	190.5	7.50	2.6	1.75
uni Flex ONE ER/ER	K750	190.5	7.50	2.7	1.81
uni Flex ONE O	K1200	304.8	12.00	4.0	2.69
uni Flex ONE-EW	K1200	304.8	12.00	3.9	2.62
uni Flex ONE-EO/EOO	K1200	304.8	12.00	4.0	2.69
uni Flex ONE ER-/L/R*	K1200	304.8	12.00	4.1	2.76
uni Flex ONE ER/ER	K1200	304.8	12.00	4.2	2.82
uni Flex ONE O	K1500	381.0	15.00	4.9	3.29
uni Flex ONE EW	K1500	381.0	15.00	4.9	3.29
uni Flex ONE EO/EOO	K1500	381.0	15.00	4.9	3.29
uni Flex ONE ER-/L/R*	K1500	381.0	15.00	5.0	3.36
uni Flex ONE ER/ER	K1500	381.0	15.00	5.1	3.43
uni Flex ONE O	K1800	457.2	18.00	6.1	4.1
uni Flex ONE EW	K1800	457.2	18.00	6.1	4.1
uni Flex ONE EO/EOO	K1800	457.2	18.00	6.1	4.1
uni Flex ONE ER-/L/R*	K1800	457.2	18.00	6.2	4.2
uni Flex ONE ER/ER	K1800	457.2	18.00	6.2	4.2
uni Flex ONE O	K2400	609.6	24.00	7.9	5.31
uni Flex ONE EW	K2400	609.6	24.00	7.8	5.24
uni Flex ONE EO/EOO	K2400	609.6	24.00	7.8	5.24
uni Flex ONE ER-/L/R*	K2400	609.6	24.00	7.9	5.31
uni Flex ONE ER/ER	K2400	609.6	24.00	8.1	5.44

** L/R = L (left)/R (right). When ordering, please specify belt edge configuration on opposite side of edge roller (e.g. uni Flex ONE ER/EO = ER on left side and EO on right side - uni Flex ONE EW/ER = EW on left side and ER right side).*

Technical Data



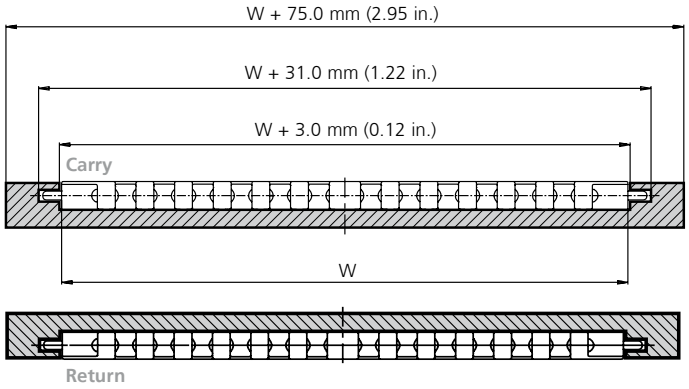
Assortment	POM-SX Belt width W			Min. Center Radius, R_c		Min. Inner Radius, R_i		Flex Ratio (R_i to W)
	Size	mm	in.	mm	in.	mm	in.	
uni Flex ONE O	K750	190.5	7.50	400.1	15.75	304.8	12.00	1.60
uni Flex ONE EW	K750	190.5	7.50	400.1	15.75	304.8	12.00	1.60
uni Flex ONE EO/EOO	K750	190.5	7.50	400.1	15.75	304.8	12.00	1.60
uni Flex ONE ER-/L/R*	K750	190.5	7.50	400.1	15.75	304.8	12.00	1.60
uni Flex ONE ER/ER	K750	190.5	7.50	400.1	15.75	304.8	12.00	1.60
uni Flex ONE O	K1200	304.8	12.00	640.1	25.20	487.7	19.20	1.60
uni Flex ONE EW	K1200	304.8	12.00	640.1	25.20	487.7	19.20	1.60
uni Flex ONE EO/EOO	K1200	304.8	12.00	640.1	25.20	487.7	19.20	1.60
uni Flex ONE ER-/L/R*	K1200	304.8	12.00	640.1	25.20	487.7	19.20	1.60
uni Flex ONE ER/ER	K1200	304.8	12.00	640.1	25.20	487.7	19.20	1.60
uni Flex ONE O	K1500	381.0	15.00	800.1	31.50	609.6	24.00	1.60
uni Flex ONE EW	K1500	381.0	15.00	800.1	31.50	609.6	24.00	1.60
uni Flex ONE EO/EOO	K1500	381.0	15.00	800.1	31.50	609.6	24.00	1.60
uni Flex ONE ER-/L/R*	K1500	381.0	15.00	800.1	31.50	609.6	24.00	1.60
uni Flex ONE ER/ER	K1500	381.0	15.00	800.1	31.50	609.6	24.00	1.60
uni Flex ONE O	K1800	457.2	18.00	960.1	37.80	731.5	28.80	1.60
uni Flex ONE EW	K1800	457.2	18.00	960.1	37.80	731.5	28.80	1.60
uni Flex ONE EO/EOO	K1800	457.2	18.00	960.1	37.80	731.5	28.80	1.60
uni Flex ONE ER-/L/R*	K1800	457.2	18.00	960.1	37.80	731.5	28.80	1.60
uni Flex ONE ER/ER	K1800	457.2	18.00	960.1	37.80	731.5	28.80	1.60
uni Flex ONE O	K2400	609.6	24.00	1280.2	50.40	975.4	38.40	1.60
uni Flex ONE EW	K2400	609.6	24.00	1280.2	50.40	975.4	38.40	1.60
uni Flex ONE EO/EOO	K2400	609.6	24.00	1280.2	50.40	975.4	38.40	1.60
uni Flex ONE ER-/L/R*	K2400	609.6	24.00	1280.2	50.40	975.4	38.40	1.60
uni Flex ONE-ER/ER	K2400	609.6	24.00	1280.2	50.40	975.4	38.40	1.60

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

** L/R = L (left)/R (right). When ordering, please specify Belt Edge Configuration on opposite side of edge roller (e.g. uni Flex ONE ER/EO = ER on left side and EO on right side - uni Flex ONE EW/ER = EW on left side and ER right side).*

Profiles for uni Flex ONE O/EO

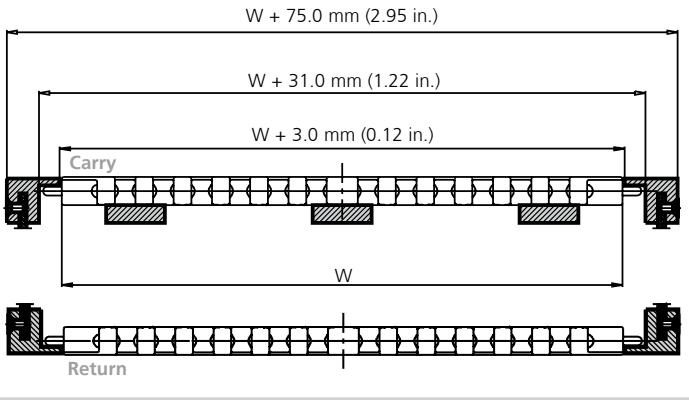
Compact Profile Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	4.5	0.18
C	8.0	0.31
D	18.0	0.71
E	22.0	0.87
F	14.0	0.55

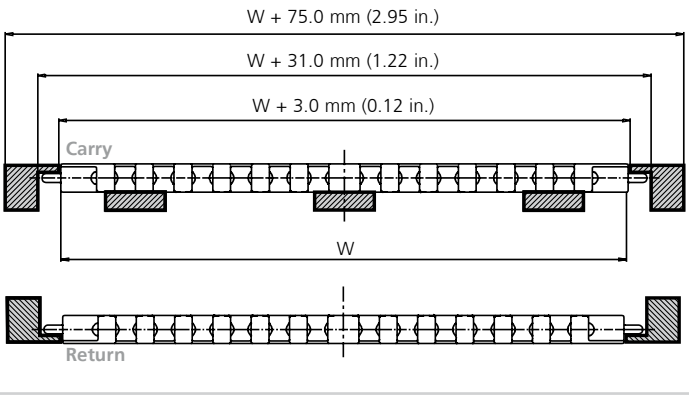
Slotted Wearstrip Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	36.0	1.42
C	4.5	0.18
D	14.0	0.55
E	40.0	1.57
F	12.0	0.47
G	20.0	0.79
H	5.0	0.20
I	22.5	0.89

Solid Wearstrip Configuration

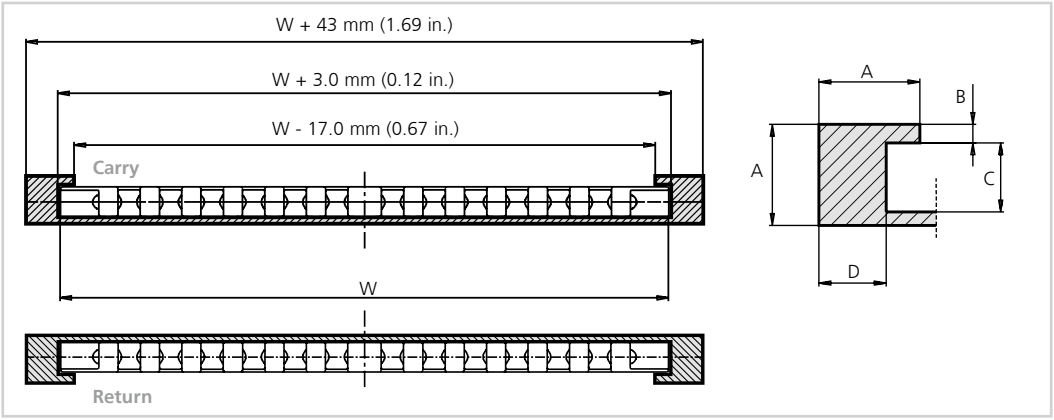


Dimensions

	mm	in.
A	30.0	1.18
B	36.0	1.42
C	4.5	0.18
D	14.0	0.55
E	40.0	1.57
F	12.0	0.47

Profiles for uni Flex ONE EW/ER

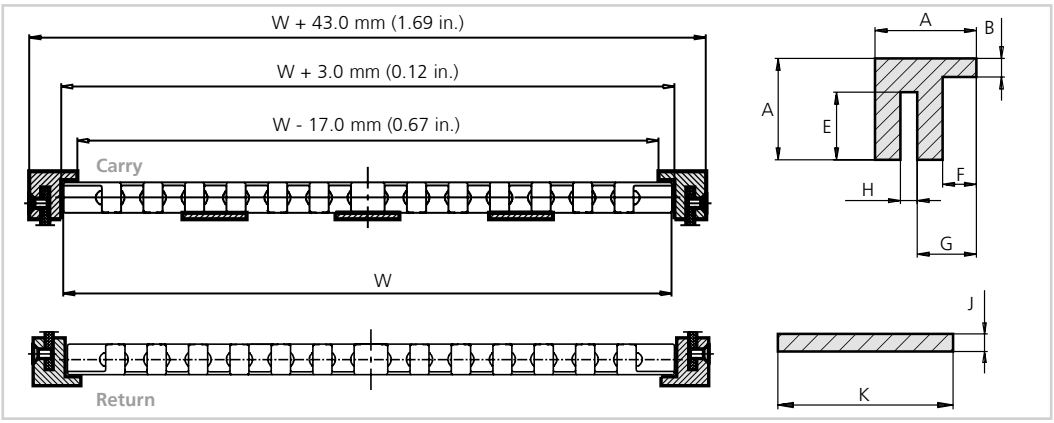
Compact Profile Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	5.5	0.22
C	20.5	0.81
D	20.0	0.79

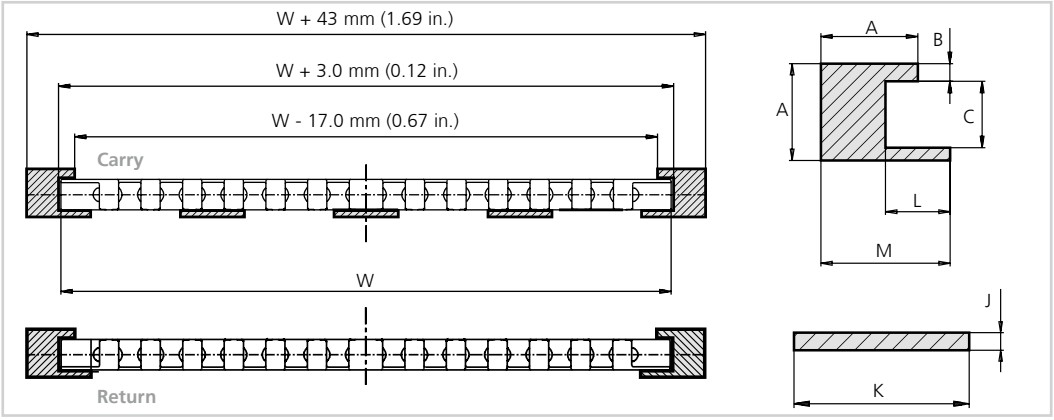
Slotted Wearstrip Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	5.5	0.22
E	20.0	0.79
F	10.0	0.39
G	17.5	0.69
H	5.0	0.20
J	4.0	0.16
K	40.0	1.57

Solid Wearstrip Configuration

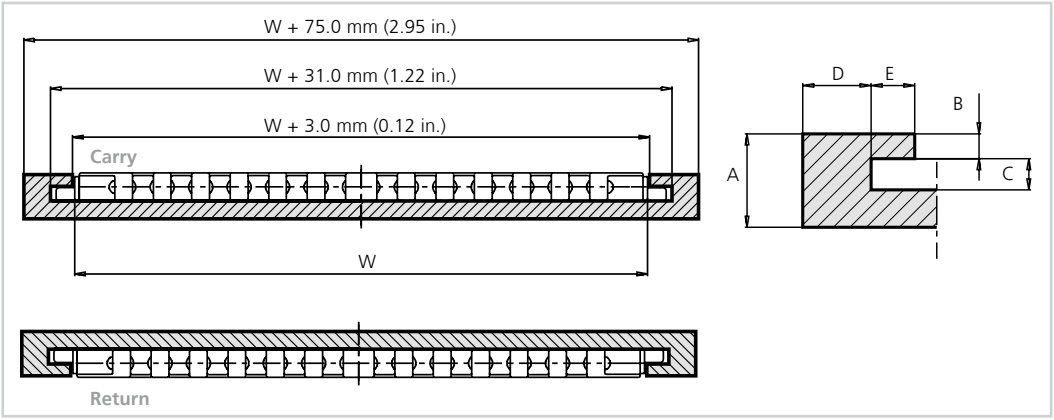


Dimensions

	mm	in.
A	30.0	1.18
B	5.5	0.22
C	20.5	0.81
J	4.0	0.16
K	40.0	1.57
L	20.0	0.79
M	40.0	1.57

Profiles for uni Flex ONE EOO

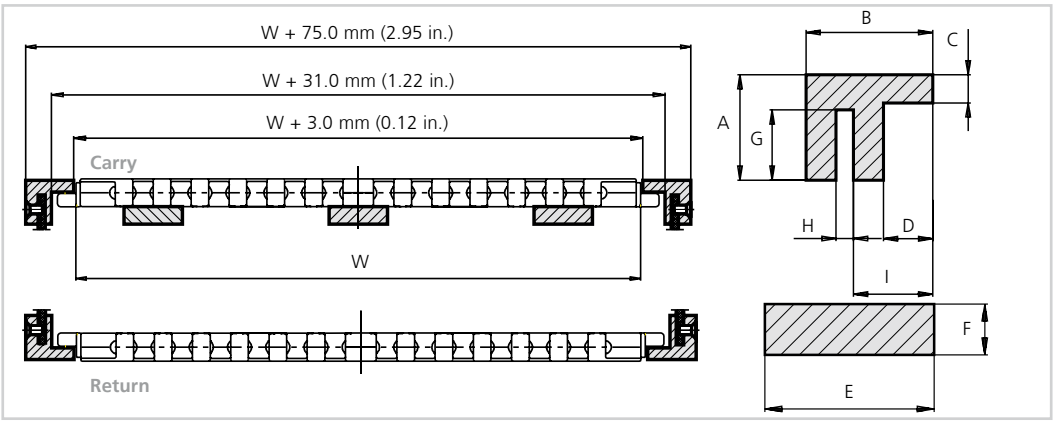
Compact Profile Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	8.0	0.31
C	10.0	0.39
D	22.0	0.87
E	14.0	0.55

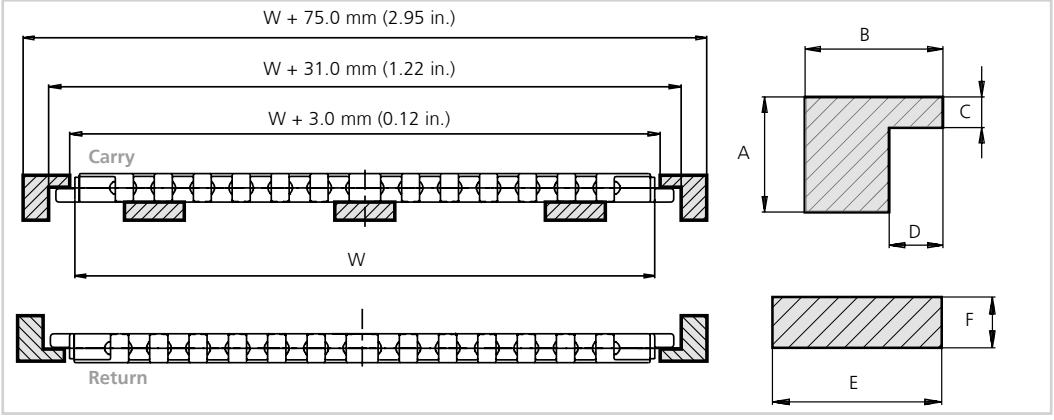
Slotted Wearstrip Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	36.0	1.42
C	8.0	0.79
D	14.0	0.55
E	40.0	1.57
F	12.0	0.47
G	20.0	0.79
H	5.0	0.20
I	22.5	0.89

Solid Wearstrip Configuration



Dimensions

	mm	in.
A	30.0	1.18
B	36.0	1.42
C	8.0	0.31
D	14.0	0.55
E	40.0	1.57
F	12.0	0.47

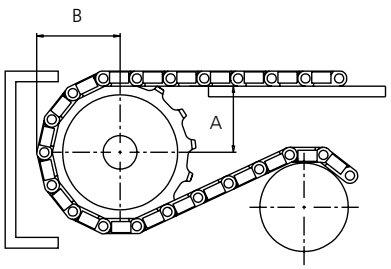
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
8	99.6	3.92	101.0	3.98	60.0	2.36	ø18.0/40.0*	ø0.71/1.57*	823PA6FONE08111LG00
					64.0	2.52	sq 25.4	sq 1.00	823PA6FONE08111LG00I100S
							sq 30.0	sq 1.18	823PA6FONE08111LG00M030S
9	111.4	4.39	113.7	4.48	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	823PA6FONE09111LG00
					74.0	2.91	sq 38.1	sq 1.50	823PA6FONE09111LG00I150S
							sq 40.0	sq 1.57	823PA6FONE09111LG00M040S
11	135.2	5.32	138.8	5.46	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	823PA6FONE11111LG00
					74.0	2.91	sq 38.1	sq 1.50	823PA6FONE11111LG00I150S
							sq 40.0	sq 1.57	823PA6FONE11111LG00M040S
					95.0	3.74	ø40.0/ø70.0	ø1.57/2.76	823PA6FONE11111LG01
					100	3.94	sq 50.8	sq 2.00	823PA6FONE11111LG00I200S
							sq 60.0	sq 2.36	823PA6FONE11111LG00M060S
12	147.2	5.80	151.2	5.95	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	823PA6FONE13111LG00
					74.0	2.91	sq 38.1	sq 1.50	823PA6FONE12111LG00I150S
							sq 40.0	sq 1.57	823PA6FONE12111LG00M040S
					110.0	4.33	ø40.0/ø70.0	ø1.57/2.76	823PA6FONE12111LG01
					114.0	4.49	sq 50.8	sq 2.00	823PA6FONE12111LG00I200S
							sq 60.0	sq 2.36	823PA6FONE12111LG00M060S
							sq 63.5	sq 2.50	823PA6FONE12111LG00I250S
13	159.2	6.27	163.6	6.44	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	823PA6FONE13111LGI00
					74.0	2.91	sq 38.1	sq 1.50	823PA6FONE13111LG00I150S
							sq 40.0	sq 1.57	823PA6FONE13111LG00M040S
					ø120.0	ø4.72	ø40.0/ø70.0	ø1.57/2.76	823PA6FONE13111LG01
					114.0	4.49	sq 50.8	sq 2.00	823PA6FONE13111LG00I200S
							sq 60.0	sq 2.36	823PA6FONE13111LG00M060S
							sq 63.5	sq 2.50	823PA6FONE13111LG00I250S
16	195.3	7.69	200.5	7.89	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	823PA6FONE16111LG00
					74.0	2.91	sq 38.1	sq 1.50	823PA6FONE16111LG00I150S
							sq 40.0	sq 1.57	823PA6FONE16111LG00M040S
					120.0	4.72	ø40.0/ø70.0	ø1.57/2.76	823PA6FONE16111LG01
					114.0	4.49	sq 50.8	sq 2.00	823PA6FONE16111LG00I200S
							sq 60.0	sq 2.36	823PA6FONE16111LG00M060S
							sq 63.5	sq 2.50	823PA6FONE16111LG00I250S

** Minimum/maximum round bore.*

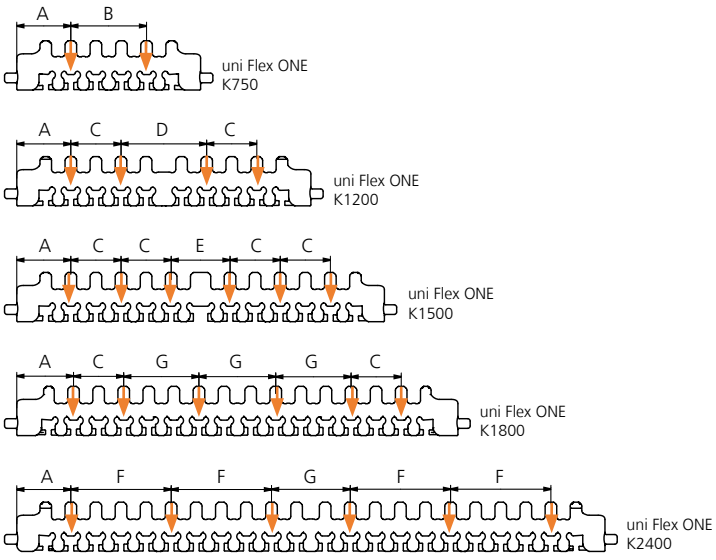
Placement of Wearstrips and Sprockets

No. of teeth	Wearstrip distance A		Minimum B-dimension	
	mm	in.	mm	in.
8	36.5	1.44	58.9	2.32
9	42.8	1.69	64.9	2.56
11	55.3	2.18	76.9	3.03
12	61.6	2.43	82.9	3.26
13	67.8	2.67	88.9	3.50
16	86.2	3.40	107.0	4.21



Width of sprockets: 39.0 mm (1.54 in.)
Tooth width: 9.0 mm (0.35 in.)
Standard material: PA6

Placement and Number of Sprockets



Dimensions

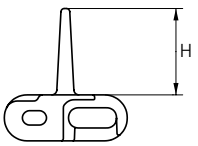
	mm	in.
A	56.0	2.20
B	78.5	3.10
C	52.0	2.05
D	88.8	3.50
E	61.0	2.40
F	104.0	4.10
G	81.6	3.21

Please note, if travel is in both directions, an extra set of sprockets is required.

Accessories | Product Support

uni Flex ONE (All Types)
Product Support

Dimensional Sketch



uni Flex ONE
Product Support

Indent: 32 mm (1.25 in.)

Standard Materials, Colors and Dimensions

Height		Width			Standard materials & colors
mm	in.	Type	mm	in.	POM-SX
25.4	1.00	K1200	304.8	12.0	W B *

** Please note that uni Flex ONE in POM-SX blue is not according to the standard color quality for blue. Small variations may occur.*

Accessories | Idler

Thickness of idler: 20.0 mm (0.79 in.)

No. of teeth	Diameter idler	
	mm	in.
8	72.9	2.87
9	85.6	3.37
11	110.7	4.36
12	123.1	4.85
13	135.5	5.33
16	172.4	6.79

Recommended for use at idler end to ensure smooth and low noise operation.

uni Flex ONE Idler

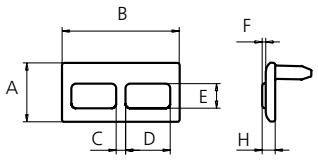
Standard Material and Color

POM-D	N

Accessories | Rubber Clip On

uni Flex ONE
Rubber Clip On

Dimensional Sketch



uni Flex ONE
Rubber Clip On

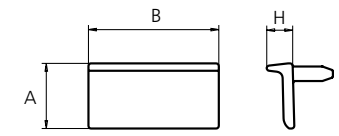
Dimensions

	mm	in.
A	25.0	0.98
B	50.0	1.97
C	4.0	0.16
D	19.0	0.75
E	10.5	0.41
F	1.5	0.06

Accessories | Product Support

uni Flex ONE
Product Support 10 mm

Dimensional Sketch

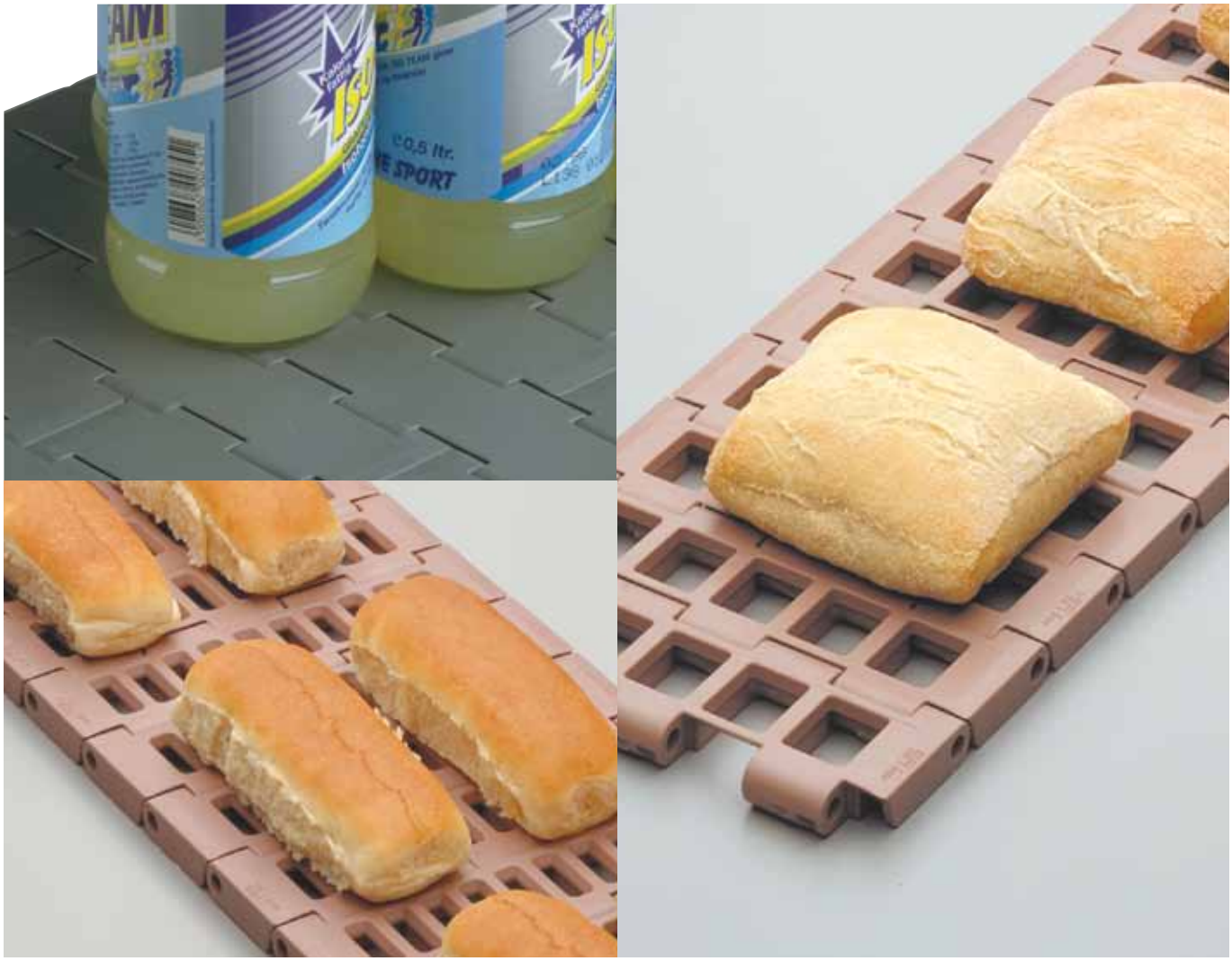


uni Flex ONE
Product Support 10 mm

Standard Materials, Colors and Dimensions

Style	H		Standard materials & colors
	mm	in.	POM-D
uni Flex ONE Rubber Clip On	5.5	0.22	O + Rubber 01 K
uni Flex ONE Product Support	10.0	0.39	O

Pitch 38.1 mm (1.50 in.)



uni SSB – strong and solid wear resistant belt

The uni SSB 1.5 in. pitch belt is created for heavy duty applications such as accumulation tables and packaging application. The uni SSB belt may be used together with uni SSB mold-to-width chains in de-combiners or combiners to increase conveyor speed and product throughput.

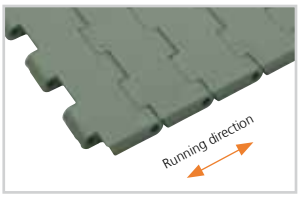
The uni SSB belt has increased performance in the following industries/applications:

- Fruit & vegetable applications including filling lines, canning lines, accumulation tables and incline/decline applications
- Bakery and snack food applications including cooling lines, pan handling, oven infeed and takeaway
- Beverage applications including case conveyors, denester lines, de-combiners, accumulation tables, incline/decline applications
- Can manufacturing applications including mass handling, transfer conveyors, accumulation tables, and palletizer infeed conveyors
- Material handling applications

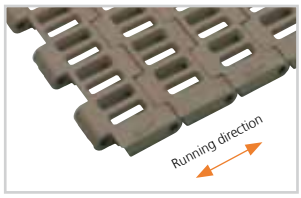
Product features and operational benefits:

- Closed and wide hinge design increasing product stability and decreasing pin wear
- Chamfered edges allowing stability in side transfer applications
- Unique locking system preventing pins walking or pins coming out
- Unique open area for cooling conveyors and incline drainage applications

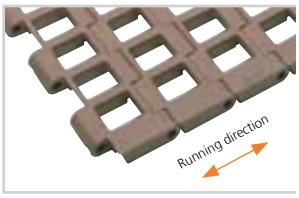
Standard Selection



uni SSB C



uni SSB 29%

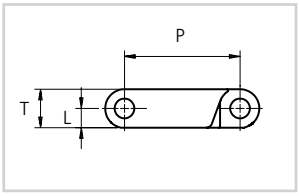


uni SSB 32%

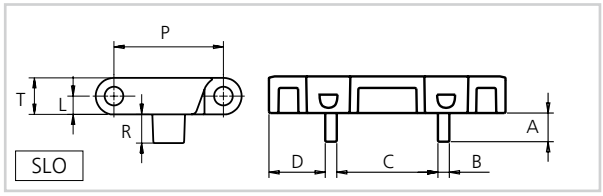
uni SSB TAB

uni SSB C Rubber Top

Dimensional Sketches



uni SSB



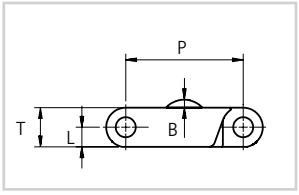
uni SSB TAB

SLO = *Single Link only*

Dimensions

	mm	in.		mm	in.		mm	in.
A	10.0	0.39	**D**	19.6	0.77	**R**	10.0	0.39
B	4.0	0.16	**L**	6.4	0.25	**T**	12.7	0.50
C	35.2	1.39	**P**	38.1	1.50			

Dimensional Sketch



uni SSB Rubber Top

Dimensions

	mm	in.
B	2.5	0.10
L	6.4	0.25
P	38.1	1.50
T	12.7	0.50

Straight running

38.1 mm (1.50 in.)

ø6.35 mm (0.25 in.)

Materials See page 8

45 mm (1.8 in.)

See page 71 and 72

See page 71 and 72

See page 172

Alternatives

PP W

SS304

Accessories

See page 70

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni SSB C | uni SSB TAB	POM-LF BR	PBT-GR N	PP B
	PP G	PBT-GR N	PP B
uni SSB C Rubber Top	POM-LF BR + 05 I	PBT-GR N	PP B
uni SSB 29%	POM-LF BR	PBT-GR N	PP B
	PP G	PBT-GR N	PP B
uni SSB 32%	POM-LF BR	PBT-GR N	PP B
	PP G	PBT-GR N	PP B

Alternative pin materials and colors: PP W + SS304

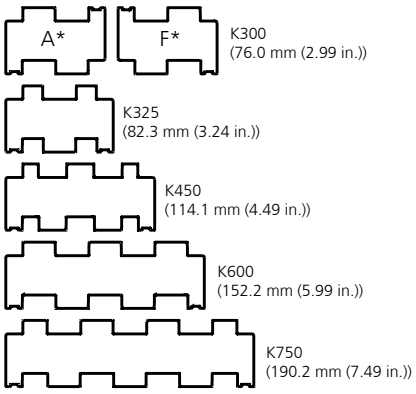
Standard Bricklayed Belt Widths (See below for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	683	26.9	1291	50.8	1899	74.8	2507	98.7
152	6.0	759	29.9	1367	53.8	1975	77.8	2583	101.7
228	9.0	835	32.9	1443	56.8	2051	80.8	2659	104.7
304	12.0	911	35.9	1519	59.8	2127	83.7	2735	107.7
380	15.0	987	38.9	1595	62.8	2203	86.7	2811	110.7
456	18.0	1063	41.9	1671	65.8	2279	89.7	2887	113.7
532	20.9	1139	44.8	1747	68.8	2355	92.7	2963	116.7
607	23.9	1216	47.9	1823	71.8	2431	95.7	3039	119.7

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni SSB Single Link®

uni SSB Single Link® is available in the following standard widths:



** Depending on the width, the uni SSB belt is bricklayed with two different K300 modules called "A" and "F." For belt widths that are multiples of 6 in. an "A" and modular "F" module are used on opposite sides every other pitch. For other belt widths only an "F" module is used on alternating sides every pitch.*

uni SSB Single Link® standard materials and colors see page 68.

uni SSB Single Link® Belt Widths

Belt type and widths	K300	K325	K450	K600	K750
	76.0 mm (2.99 in.)	82.3 mm (3.24 in.)	114.1 mm (4.49 in.)	152.2 mm (5.99 in.)	190.2 mm (7.49 in.)
uni SSB C	X	SLO	SLO	X	SLO
uni SSB C TAB		SLO			
uni SSB 29%	X			X	
uni SSB 32%	X			X	
uni SSB Rubber	X			X	

SLO = *Single Link only*

Belt Weights

Belt material	POM-LF						PP					
Pin material	PBT-GR		PP		steel		PBT-GR		PP		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
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

Permissible Tensile Strength

Belt material	POM-LF						PP					
Pin material	steel		PBT-GR		PP		steel		PBT-GR		PP	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni SSB	36000	2467	19400	1329	9300	637	18000	1233	13000	891	11000	754

Accessories | Product Support

Minimum bricklayed indent is for uni SSB Product Support 50.8 mm (2.00 in.).

Increment: 25.4 mm (1.00 in.).

uni SSB Product Support

Standard Dimensions

Style	H		Width		
	mm	in.	mm		in.
Flat	76.1	3.00	K600	152.2	5.99

Standard Material and Color

PP-I G

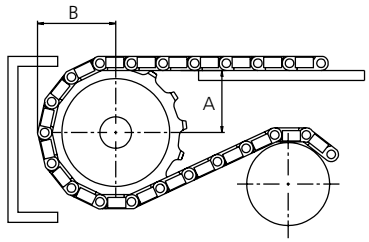
Standard Sprockets - Single Row

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
19	117.3	4.62	117.1	4.61	57.2	2.25	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB19211N00
21	129.3	5.09	130.0	5.12	57.2	2.25	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB21211N00
23	141.2	5.56	142.0	5.59	57.2	2.25	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB23211N00
25	153.2	6.03	154.2	6.07	57.2	2.25	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB25211N00

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension*		Wearstrip distance A	
	mm	in.	mm	in.
19	65.0	2.56	49.1	1.93
21	70.9	2.79	55.4	2.18
23	76.9	3.03	61.6	2.42
25	82.9	3.26	67.8	2.67



Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 15.0 mm (0.59 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets available upon request.
Note: uni SSB can also be driven by uni 820 chain sprokets except uni SSB K325 and K450.
** B-dimension is for Flat Top Belt. In case of other belt configuration add hight of Rib Top, Product Supports or Sideguards to B-dimension.*

Standard Sprockets - Two-part Single Row

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
19	117.3	4.62	117.1	4.61	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB19212N00
21	129.3	5.09	130.0	5.12	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB21212N00
23	141.2	5.56	142.0	5.59	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB23212N00
25	153.2	6.03	154.2	6.07	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	163PA6SSB25212N00

** Minimum/maximum round bore.*

Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 15.0 mm (0.59 in.)
Standard material: PA6

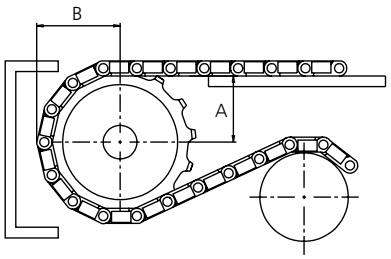
Standard Sprockets - Double Row

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
19	117.3	4.62	117.1	4.61	58.0	2.28	ø20.0/40.0*	ø0.79/1.57*	303PA682019221N00
21	129.3	5.09	130.0	5.12	58.0	2.28	ø20.0/40.0*	ø0.71/1.57*	303PA682021221LG00
23	141.2	5.56	142.0	5.59	58.0	2.28	ø20.0/40.0*	ø0.71/1.57*	303PA682023221N00
25	153.2	6.03	154.2	6.07	58.0	2.28	ø20.0/40.0*	ø0.71/1.57*	303PA682025221LG00
27	165.2	6.50	167.0	6.57	0	0	ø20.0/110.0*	ø0.71/4.33*	303PA682027221N00
29	177.2	6.98	179.0	7.05	0	0	ø20.0/120.0*	ø0.71/4.72*	303PA682029221N00
31	189.3	7.45	192.0	7.56	0	0	ø20.0/130.0*	ø0.71/5.12*	303PA682031221N00

**Minimum/maximum round bore*

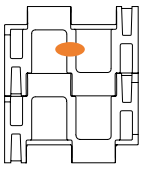
Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension*		Wearstrip distance A	
	mm	in.	mm	in.
19	65.0	2.56	49.1	1.93
21	70.9	2.79	55.4	2.18
23	76.9	3.03	61.6	2.42
25	82.9	3.26	67.8	2.67
27	88.9	3.50	74.0	2.91
29	94.9	3.74	80.1	3.16
31	100.9	3.97	86.3	3.40



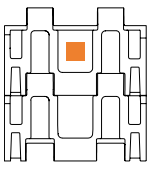
Width of sprockets: 42.3 mm (1.67 in.)
Standard material: PA6

Overview Sprocket Placement



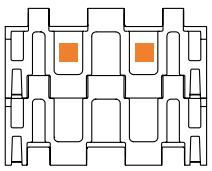
uni SSB K300

SLO & bricklayed



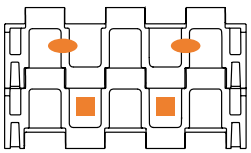
uni SSB K325

SLO



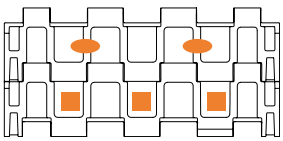
uni SSB K450

SLO



uni SSB K600

SLO & bricklayed



uni SSB K750

SLO

Single Row sprocket
Double Row sprocket
SLO *= Single Link only*

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni SSB	2000	450	1200	270

Pitch 50.8 mm (2.00 in.)

uni BLB – the perfect belt for cooking, steaming and blanching

The uni BLB design combines plastic with stainless steel. A unique belt surface ensures that the conveyed products are only in contact with plastic without abandoning the advantages of stainless steel. The plastic and stainless steel combination thus prevents belt elongation and strength reduction at water boiling temperatures. This makes uni BLB ideal for handling all sorts of sensitive products like vegetables, fruits and pasta. With the special surface openings, even rice can be handled by uni BLB.

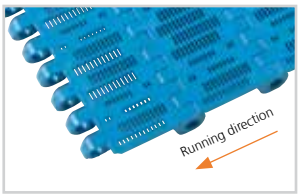
The uni BLB belt increases performance in the following industries/applications:

- Blanching of vegetables & rice
- Cooking or precooking of fresh pasta
- Steaming of rice & pasta
- Cooking and cooling of fish & shellfish

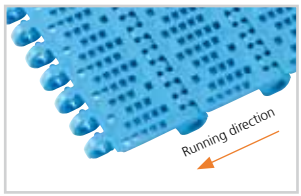
Product features and operational benefits:

- Improved product quality as the belt surface ensures minimum product damage and easy release from the belt
- No marking of the products from the belt surface
- No product contamination or damage due to contact with stainless steel
- Long life and low maintenance costs
- Simplified and reliable equipment design since belt elongation due to temperature is reduced by 90% compared to all plastic belts
- Higher product yield due to hygienic design and less cleaning time
- Increased equipment utilization as various products can be handled on the same belt. Making the equipment less depending on short harvesting seasons

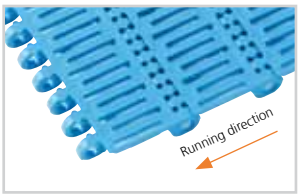
Standard Selection



uni BLB
Surface opening 18%



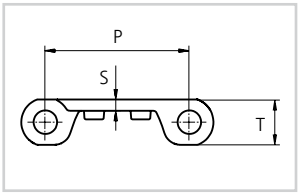
uni BLB
Surface opening 22%



uni BLB
Surface opening 38%

uni BLB
with reinforcement links, Bottom

Dimensional Sketch



uni BLB

Dimensions

	mm	in.
P	50.8	2.00
S	4.0	0.16
T	16.0	0.63

Straight running

50.8 mm (2.00 in.)

ø8.0 mm (0.31 in.)

Patent pending

See page 8

65 mm (2.6 in.)
Side Guards: 200 mm (7.9 in.)

See page 76

See page 172

Alternative

PP-HW LB

Accessories

See page 77

SS316

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni BLB 18%	**PP-HW** LB	**SS304**	**PP-HW** LB
uni BLB 22%	**PP-HW** LB	**SS304**	**PP-HW** LB
uni BLB 38%	**PP-HW**	**SS304**	**PP-HW** LB

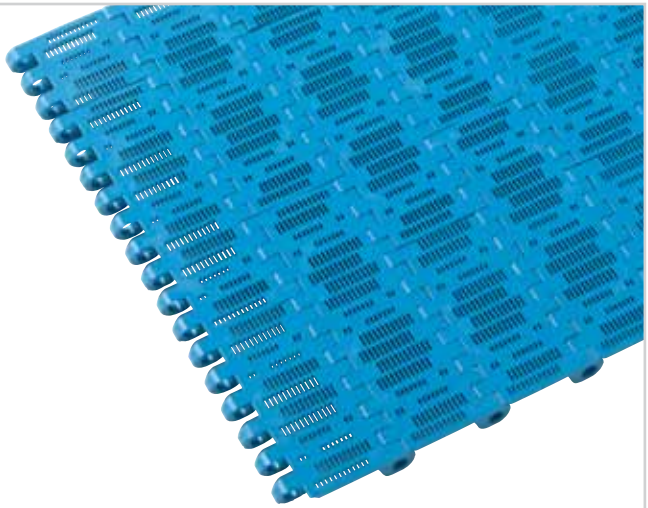
Alternative pin materials and colors: **PP-HW** LB

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

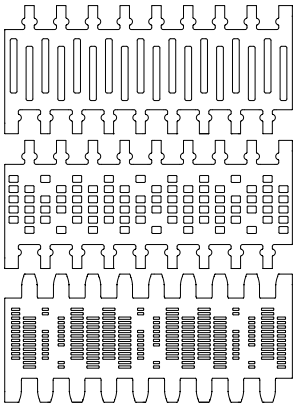
mm	in.	mm	in.	mm	in.	mm	in.
152	6.0	507	20.0	1167	45.9	1623	63.9
254	10.0	558	22.0	1268	49.9	1775	69.9
305	12.0	609	24.0	1369	53.9	1927	75.9
355	14.0	761	30.0	1454	57.2	1979	77.9
406	16.0	964	38.0	1504	59.2	2029	79.9
457	18.0	1065	41.9	1572	61.9	2181	85.9

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni BLB Single Link®



uni BLB Single Link® is available in the following standard widths:



K600 38% (152.2 mm (5.99 in.))

K600 22% (152.2 mm (5.99 in.))

K600 18% (152.2 mm (5.99 in.))

uni BLB Single Link® standard materials and colors see page 74.

Belt Weights

Belt material	PP-HW		PP-HW	
Pin material	**SS**		**PP-HW**	
	kg/m²	**lb/ft²**	**kg/m²**	**lb/ft²**
uni BLB 18%	11.7	2.40	4.8	0.98
uni BLB 22%	11.7	2.40	4.8	0.98
uni BLB 38%	11.7	2.40	4.8	0.98
uni BLB with reinforcement	12.7	2.60	-	-

Max. Permissible Load

Belt material	PP-HW		PP-HW	
Pin material	**SS**		**PP-HW | SS**	
	N/row	**lbf/row**	**N/m**	**lbf/ft**
uni BLB 18%	-	-	6600	452
uni BLB 22%	-	-	6600	452
uni BLB 38%	-	-	6600	452
uni BLB 18% with reinforcement	2500	562	-	-
uni BLB 22% with reinforcement	2500	562	-	-
uni BLB 38% with reinforcement	2500	562	-	-

Load capacity per row of reinforcement links in the belt. Maximum 19 rows per metre belt width.
Example: If seven rows are installed the max. permissible load of the belt is 7 x 2500 N (562 lbf) = 17500 N (3934 lbf).

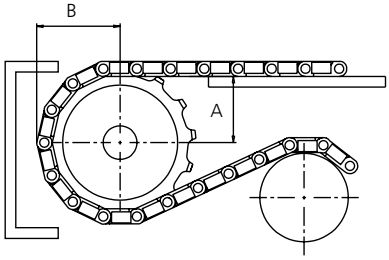
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	101.6	4.00	99.5	3.92	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH06111N00
							sq 38.1	sq 1.50	183PA6MPBH06111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH06111LG00M040S
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH08111LG00
							sq 38.1	sq 1.50	183PA6MPBH08111LG00I150S
							sq 40.0	sq 1.57	183PA6MPBH08111N00M040S
					100.0	3.94	sq 50.8	sq 2.00	183PA6MPBH08111N00I200S
10	164.4	6.47	166.3	6.55	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10111N00
							sq 38.1	sq 1.50	183PA6MPBH10111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10111LG00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	183PA6MPBH10111LG01
							sq 50.8	sq 2.00	183PA6MPBH10111N00I200S
							sq 63.5	sq 2.50	183PA6MPBH10111N00I250S
							sq 60.0	sq 2.36	183PA6MPBH10111LG00M060S
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH12111LG02
							sq 38.1	sq 1.50	183PA6MPBH12111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH12111N00M040S
					120.0	4.72	ø40.0/70.0*	1.57/2.76*	183PA6MPBH12111N01
							sq 50.8	sq 2.00	183PA6MPBH12111N00I200S
							sq 60.0	sq 2.36	183PA6MPBH12111N00M060S
16	260.4	10.25	263.8	10.04	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH16111N00
					150.0	5.91	ø40.0/70.0*	1.57/2.76*	183PA6MPBH16111N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	60.9	2.40	36.2	1.43
8	76.8	3.02	53.6	2.11
10	92.8	3.65	70.5	2.78
12	108.8	4.28	87.2	3.43
16	141.1	5.56	120.2	4.73



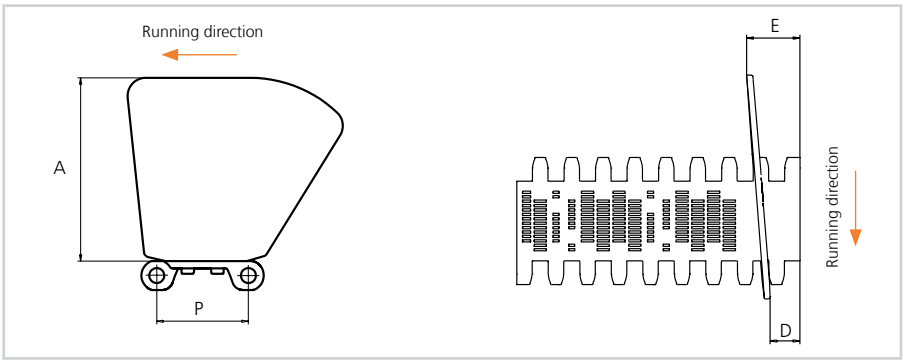
Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 9.5 mm (0.37 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.
Please note, if travel is in both directions, an extra set of sprockets is required. Alternatively, use bi-directional options.

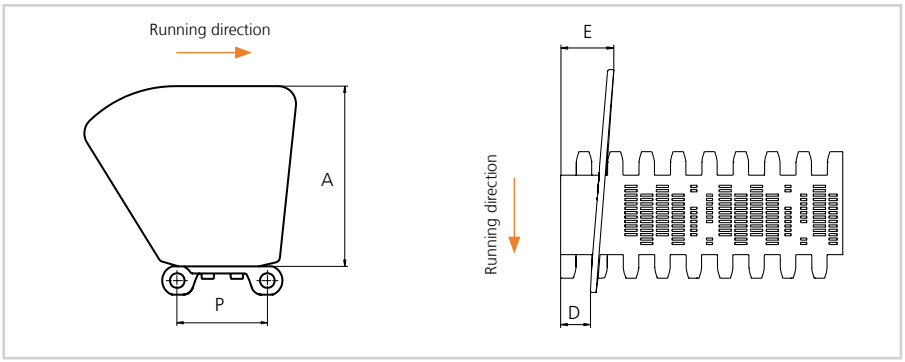
Max. Load per Sprocket

Belt material	PP-HW	
	N	lbf
uni BLB with snub roller	2000	450
uni BLB without snub roller	1250	281

Dimensional Sketches



uni BLB Side Guard left



uni BLB Side Guard right

Dimensions

	mm	in.
A	101.6	4.00
D	16.0	0.63
E	28.5	1.12
P	50.8	2.00

Note:
uni BLB 18%, 22% and 38% are available with sideguards.

Standard Material and Color

PP-HW **LB**

Pitch 50.8 mm (2.00 in.)

uni CPB – a strong and wear resistant belt

The uni CPB 2 in. pitch, straight running belt is made for heavy duty conveyors. It replaces steel slat top chains and other technologies being used for high wear or heavy duty applications.

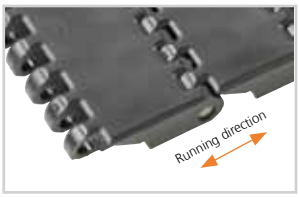
The uni CPB (Closed and Rough Top) belts have increased performance in the following industries/applications:

- Automotive applications including manrider belts, car conveyors and leak tests
- Carwash applications including carwash interior detailing areas
- Material handling applications including pallet handling and other heavy duty product applications
- Meat applications (beef & pork) including hook lines and hide takeaway conveyors
- Bakery applications including stacked pan handling and packaging lines
- People moving applications including ski lifts and amusement parks

Product features and operational benefits:

- No lubrication required
- Easy maintenance and less downtime with unique (lockpin system
- Reduced noise level
- Extremely wear and impact resistant
- Unique sprocket engagement allowing long conveyors with reduced pulsation
- Rough top surface reducing slippage and allowing safe movements

Standard Selection

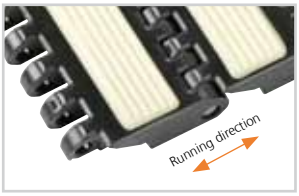


uni CPB C

uni CPB 20% Rough

uni CPB C Rough

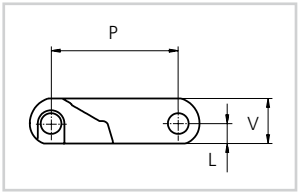
uni CPB Rubber Top
Type RB1



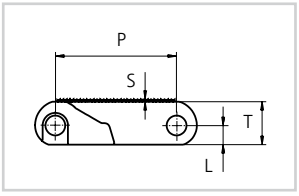
uni CPB Rubber Top
Type RB2

The color of standard rubber material is black. However, as it is hardly possible to see black rubber on black links, the links have been illustrated with rubber in color natural.

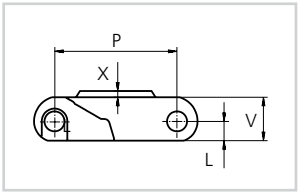
Dimensional Sketches



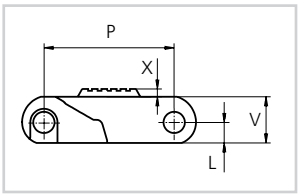
uni CPB C



uni CPB 20% Rough
uni CPB C Rough



uni CPB Rubber Top
Type RB1



uni CPB Rubber Top
Type RB2

Straight running

50.8 mm (2.00 in.)

ø8 mm (0.31 in.)

Materials See page 8

85 mm (3.3 in.)

See pages 81 and 82

See page 172

09 K See page 12

See page 169

Accessories

See page 82

Alternative

PBT LG

Dimensions

	mm	in.
L	8.0	0.31
P	50.8	2.00
S	1.0	0.04
T	18.0	0.71
V	19.0	0.75
X	3.0	0.12

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni CPB C	**POM-NLAS** K	**PA6.6** N
	POM-NL K	**PA6.6** N
	PP G	**PA6.6** N
uni CPB 20% Rough	**POM-NLAS** K	**PA6.6** N
	POM-NL K	**PA6.6** N
uni CPB C Rough	**POM-NL** K	**PA6.6** N
	POM-NLAS K	**PA6.6** N
uni CPB Rubber Top RB1 and RB2	**POM-NL** K + 09 K	**PA6.6** N

Alternative pin materials and colors:

PBT LG

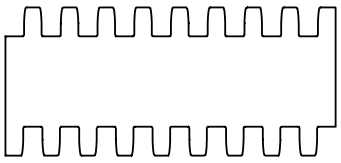
Standard Bricklayed Belt Widths (See below for Single Link® width)

mm	in.	mm	in.	mm	in.	mm	in.
150	5.9	651	25.6	1151	45.3	1652	65.0
200	7.9	701	27.6	1201	47.3	1702	67.0
250	9.8	751	29.6	1252	49.3	1752	69.0
300	11.8	801	31.5	1302	51.3	1802	70.9
350	13.8	851	33.5	1352	53.2	1852	72.9
401	15.8	901	35.5	1402	55.2	1902	74.9
451	17.8	951	37.4	1452	57.2	1952	76.9
501	19.7	1001	39.4	1502	59.1	2002	78.8
551	21.7	1051	41.4	1552	61.1	2052	80.8
601	23.7	1101	43.3	1602	63.1	2102	82.8

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni CPB Single Link®

uni CPB Single Link® is available in the following standard width:



K600 (150.5 mm (5.93 in.))

uni CPB Single Link® standard materials and colors see page 79.

Belt Weights

Belt material	POM-NL | NLAS		PP	
Pin material	PA6.6		PA6.6	
	kg/m²	lb/ft²	kg/m²	lb/ft²
uni CPB C | 20% Rough | C Rough | Rubber Top	16.6	3.40	11.1	2.27

Permissible Tensile Strength

Belt material	POM-NL | NLAS		PP	
Pin material	PA6.6		PA6.6	
	N/m	lbf/ft	N/m	lbf/ft
uni CPB C | 20% Rough | C Rough | Rubber Top	52000	3563	35000	2398

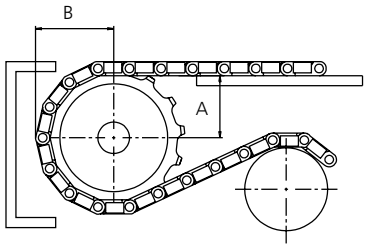
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	101.6	4.00	99.5	3.92	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH06111N00
							sq 38.1	sq 1.50	183PA6MPBH06111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH06111LG00M040S
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH08111LG00
							sq 38.1	sq 1.50	183PA6MPBH08111LG00I150S
							sq 40.0	sq 1.57	183PA6MPBH08111N00M040S
					100.0	3.94	sq 50.8	sq 2.00	183PA6MPBH08111N00I200S
10	164.4	6.47	166.3	6.55	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10111N00
							sq 38.1	sq 1.50	183PA6MPBH10111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10111LG00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	183PA6MPBH10111LG01
							sq 50.8	sq 2.00	183PA6MPBH10111N00I200S
							sq 63.5	sq 2.50	183PA6MPBH10111N00I250S
							sq 60.0	sq 2.36	183PA6MPBH10111LG00M060S
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH12111LG02
							sq 38.1	sq 1.50	183PA6MPBH12111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH12111N00M040S
					120.0	4.72	ø40.0/70.0*	1.57/2.76*	183PA6MPBH12111N01
							sq 50.8	sq 2.00	183PA6MPBH12111N00I200S
							sq 60.0	sq 2.36	183PA6MPBH12111N00M060S
16	260.4	10.25	263.8	10.04	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH16111N00
					150.0	5.91	ø40.0/70.0*	1.57/2.76*	183PA6MPBH16111N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	60.9	2.40	36.2	1.43
8	76.8	3.02	53.6	2.11
10	92.8	3.65	70.5	2.78
12	108.8	4.28	87.2	3.43
16	141.1	5.56	120.2	4.73



Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 9.5 mm (0.37 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.
Please note, if travel is in both directions, an extra set of sprockets is required. Alternatively use bi-directional options. (See next page.)

Max. Load per Sprocket

Belt material	POM-NL | NLAS	
	N	lbf
uni CPB	2500	560

Standard Bi-directional Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	164.4	6.47	166.3	6.55	65.0 [1]	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10221N00
							sq 38.1	sq 1.50	183PA6MPBH10221N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10221LG00M040S
					120.0 [1]	4.72	ø40.0/70*	ø1.57/2.76*	183PA6MPBH10221N01
							sq 60.0	sq 2.36	183PA6MPBH10221N00M060S
							sq 63.5	sq 2.50	183PA6MPBH10221N00I250S
12	196.3	7.73	198.6	7.82	120.0 [1]	4.72	sq 60.0	sq 2.36	183PA6MPBH12221N00M060S
					113.0 [2]	4.45	sq 60.0	sq 2.36	183PA6MPBH12221LG01M060S
					156.0 [2]	6.14	sq 90.0	sq 3.54	183PA6MPBH12221LG01M090S
16	260.4	10.25	263.8	10.04	114.0 [2]	4.49	sq 60.0	sq 2.36	183PA6MPBH16221LG01M060S**
					156.0 [2]	6.14	sq 90.0	sq 3.54	183PA6MPBH16221LG01M090S**

** Minimum/maximum round bore.*

Standard Sprockets

*

Width of sprockets: [1] 42.3 mm (1.67 in.)
[2] 50.0 mm (1.97 in.)
Standard material: PA6

**

Width of sprockets: 50.0 mm (1.97 in.)
Tooth width: 17.0 mm (0.67 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

MTO Selection

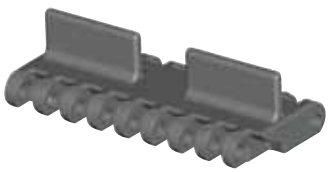
uni CPB
with Thread Inserts

The thread inserts allow for easy attachment of fixtures to the belt.

Available insert size M5.

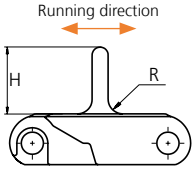
Depending on the size and shape of the attachment, attention should be paid to how the will influence on the backflex radius of the belt.

Accessories | Product Support



uni CPB Product Support
Flat (no Ribs)

Dimensional Sketch



uni CPB Product Support
Flat (no Ribs)

Dimensions

	mm	in.
R	5.50	0.22
H	25.0	1.00

Gap between Product Supports is 30.0 mm (1.18 in.)

Standard Materials, Colors and Dimensions

Height		Width			Standard materials & colors
mm	in.	Type	mm	in.	POM-NLAS
25.4	1.00	K600	150.5	5.93	K

Pitch 50.8 mm (2.00 in.)

uni Flex L-ASB

This new generation of 2 in. pitch radius belts with or without hold down tabs offers a unique patenteddesign making this an extremely strong radius belt.
A version with a tighter turning radius is also available called uni Flex L-ASB R.
This new generation is easy to clean and, combined with POM-D material, it has good release characteristics.
The increased lateral stability allows the use of fewer support strips than with other belts.
The improved hygienic design of this straight and sideflexing belt makes it the ideal processing belt in cooling, freezing, drying or proofing applications. The uni Flex L-ASB is a proven belt in spiral applications.

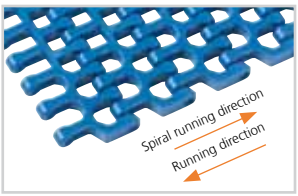
The uni Flex L-ASB Series increases performance in the following industries and applications:

- Bakery industry including pan handling, cooling lines, internal transport, and packaging lines with demands for height belt strength
- Meat & poultry applications including packaging lines
- Spiral applications
- Furniture industry

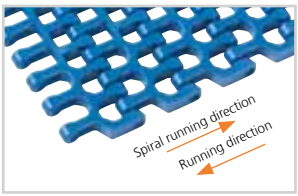
Product features:

- Standard POM-D material containing a self-lubricating component, improving non-stick characteristics and reducing friction
- Easy to clean thanks to improved hygienic design of the hinges
- Tight radius application reducing space requirements
- Fewer support strips thanks to increased lateral stability
- Available with 2.2 and 1.6 collapsing factor

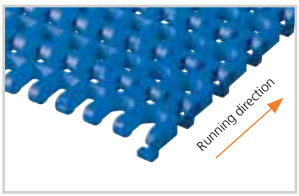
Standard Selection



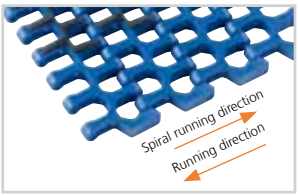
uni Flex L-ASB
Surface opening 47%



uni Flex L-ASB R
Surface opening 50%



uni Flex L-ASB T
Surface opening 47%

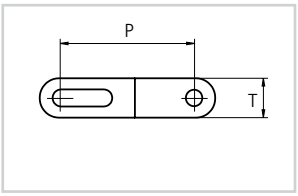


uni Flex L-ASB Rubber Top
Surface opening

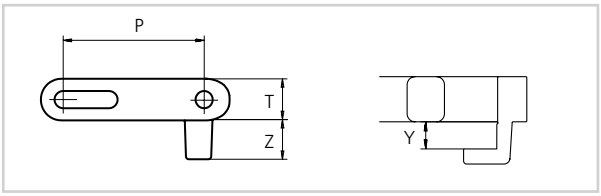
uni Flex L-ASB and and uni Flex L-ASB T:
Min. inside radius 2.2 x belt width.

uni Flex L-ASB-R:
Min. inside radius 1.6 x belt width.

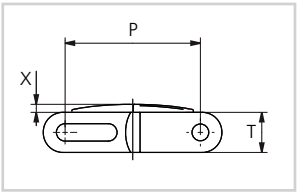
Dimensional Sketches



uni Flex L-ASB
uni Flex L-ASB R



uni Flex L-ASB T



uni Flex L-ASB Rubber Top

Dimensions

	mm	in.		mm	in.
P	50.8	2.00	**Z**	14.0	0.55
T	15.0	0.59	**X**	3.00	0.12
Y	9.00	0.35	-	-	-

uni Flex L-ASB Rubber Top: Indent min. 71.0 mm (2.80 in.) and Increment 25.4 mm (1.00 in.)
uni Flex L-ASB R: Indent min. 97.0 mm (3.82 in.) and Increment 25.4 mm (1.00 in.)

Sideflexing

50.8 mm (2.00 in.)

Snap Pin A1

ø6.0 mm (0.24 in.)

Patent pending

See page 8

100 mm (3.94 in.)

See page 87

See page 172

See page 169

Accessories

See page 86

Alternatives

PP W PBT LG

Standard Materials and Colors

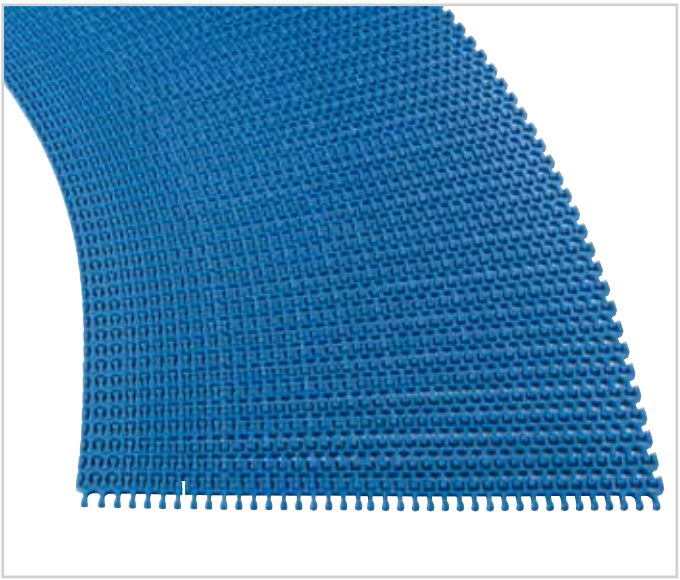
Type	Standard materials and colors	Standard pin materials and colors
uni Flex L-ASB	POM-D W	PA6.6 B
	POM-D B	PA6.6 B
	PP B W	PA6.6 B
uni Flex L-ASB T	POM-D W	PA6.6 B
	POM-D B	PA6.6 B
	PP B W	PA6.6 B
uni Flex L-ASB R	POM-D W	PA6.6 B
	POM-D B	PA6.6 B
	PP B W	PA6.6 B
uni Flex L-ASB Rubber Top	PP B + 03 K	PA6.6 B
uni Flex L-ASB R Rubber Top	PP B + 03 K	PA6.6 B
uni Flex L-ASB T Rubber Top	PP B + 03 K	PA6.6 B

Standard Bricklayed Belt Widths

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
249	9.8	452	17.8	605	23.8	704	27.7	910	35.8	1087	42.8	1545	60.8	2002	78.8
325	12.8	478	18.8	630	24.8	783	30.8	935	36.8	1240	48.8	1697	66.8	2154	84.8
402	15.8	554	21.8	656	25.8	859	33.8	1011	39.8	1392	54.8	1849	72.8	2307	90.8

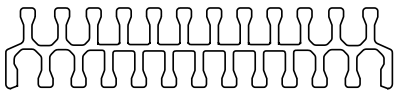
On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C (73° F).

uni Flex L-ASB Single Link®



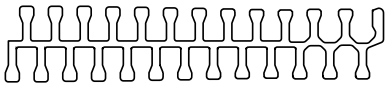
uni Flex L-ASB Single Link® is available in the following standard widths:

K1280 Both (325.9 mm (12.83 in.))



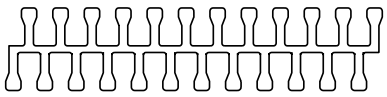
The both link is split in two and used as the outer part of the belt.

K1320 L-ASB R (331.5 mm (13.05 in.))



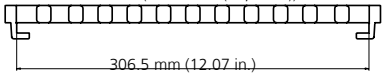
The R module is used as the inside part of the belt for a tighter radius.

K1200 Center (299.7 mm (11.80 in.))



The center module is used in the middle of the belt.

K1280 Both L-ASB T (325.9 mm (12,83 in.))



uni Flex L-ASB Single Link® standard materials and colors see page 84.

Standard Single Link®

Belt type and widths	K1200 Center 299.7 mm (11.80 in.)	K1280 Both 325.9 mm (12.83 in.)	K1320 331.5 mm (13.05 in.)
uni Flex L-ASB	X	X	
uni Flex L-ASB T		X	
uni Flex L-ASB R			X
uni Flex L-ASB Rubber Top	X	X	X

Please note: Only the outer hinge from the both and the R modul can be used to retain the Snap Pin.

Max. Permissible Load in Curve

Belt material	Belt width W	POM		PP	
Pin material		PA6.6		PA6.6	
	in.	N	lbf	N	lbf
uni Flex L-ASB | T | R | Rubber Top	12 in. < = W < 18 in.	2440	559	1440	346
	W > 18 in.	3110	699	1960	441

Max. Permissible Load in Straight Sections

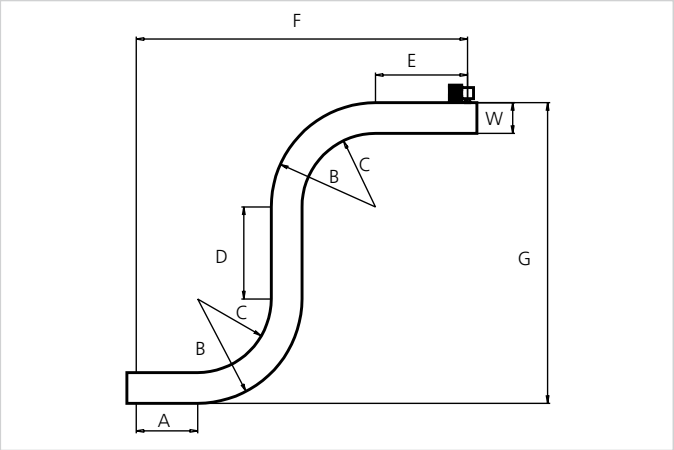
Belt material	POM		PP	
Pin material	PA6.6		PP | PA6.6	
	N/m	lbf/ft	N/m	lbf/ft
uni Flex L-ASB | T | R |	40000	2740	20000	3478
uni Flex L-ASB | T | R | Rubber Top	-	-	20000	3478

Belt Weights

Belt material	POM		PP	
Pin material	PA6.6		PP	
	kg/m²	lb/ft²	kg/m²	lb/ft²
uni Flex L-ASB | T	9.8	2.00	6.0	1.20
uni Flex L-ASB R	9.8	2.00	-	-
uni Flex L-ASB Rubber Top	-	-	6.5	1.33

Design Guidelines

L - Conveyors



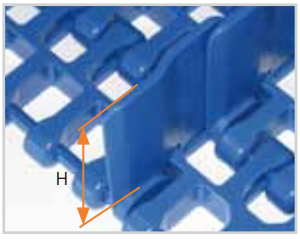
C - Conveyors

	uni Flex L-ASB uni Flex L-ASB T	uni Flex L-ASB R (inside)
A	min. 1.5 x W	min. 1.5 x W
B	min. 3.2 x W	min. 2.6 x W
C	min. 2.2 x W	min. 1.6 x W
D	min. 2.0 x W	min. 2.0 x W
E	min. 2.0 x W	min. 2.0 x W
F	min. 8.9 x W	min. 7.7 x W
G	min. 8.4 x W	min. 7.2 x W

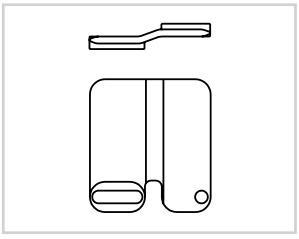
uni Flex L-ASB R can not be used in S-conveyors.

S - Conveyors

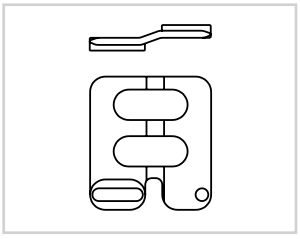
Accessories | Lane Divider



Lane Divider



Lane Divider



Lane Divider Airflow

Dimensions

Style	H	
	mm	in.
Lane Divider	10.0	0.39
Lane Divider	25.4	1.00
Lane Divider	50.0	2.00
Lane Divider Airflow	50.0	2.00

Standard Material and Color

POM-D	B	W

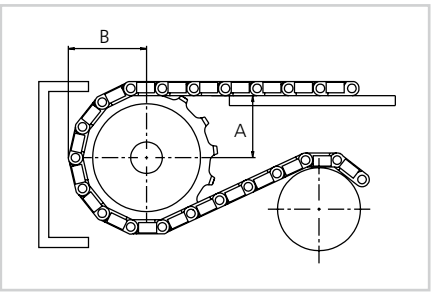
Min. standard indent for Lane Divider is: Indent min. 80.0 mm (3.15 in.) and Increment 25.4 mm (1.00 in.)

Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	
8	132.7	5.18	134.6	5.30	ø18.0/70.0	ø0.71/2.76	673PA6FLASB08211N00
					sq 38.1	sq 1.50	673PA6FLASB08211N00I150S
					sq 40.0	sq 1.57	673PA6FLASB08211N00M040S
					sq 50.8	sq 2.00	673PA6FLASB08211N00I200S
10	164.4	6.46	168.3	6.63	ø18.0/70.0	ø0.71/2.76	673PA6FLASB10211N00
					sq 38.1	sq 1.50	673PA6FLASB10211N00I150S
					sq 40.0	sq 1.57	673PA6FLASB10211N00M040S
					sq 50.8	sq 2.00	673PA6FLASB10211N00I200S
12	196.3	7.74	203.5	8.01	ø18.0/120.0	ø0.71/4.76	673PA6FLASB12211N00
					sq 38.1	sq 1.50	673PA6FLASB12211N00I150S
					sq 40.0	sq 1.57	673PA6FLASB12211N00M040S
					sq 50.8	sq 2.00	673PA6FLASB12211N00I200S
15	244.3	9.66	253.4	9.98	ø18.0/150.0	ø0.71/5.91	673PA6FLASB15211N00
					sq 38.1	sq 1.50	673PA6FLASB15211N00I150S
					sq 40.0	sq 1.57	673PA6FLASB15211N00M040S
					sq 50.8	sq 2.00	673PA6FLASB15211N00I200S
					sq 60.0	sq 2.36	673PA6FLASB15211N00M060S
					sq 63.5	sq 2.50	673PA6FLASB15211N00I250S

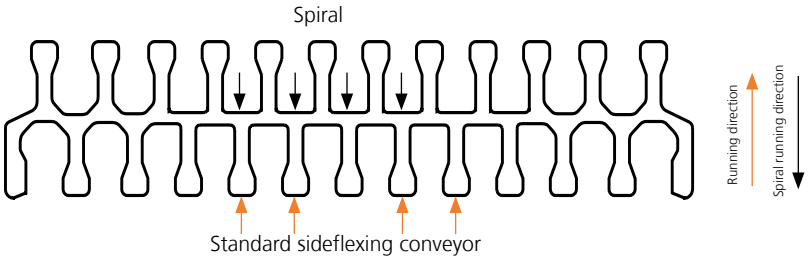
Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
8	74.4	2.93	54.3	2.14
10	90.3	3.56	71.3	2.81
12	106.4	4.19	88.0	3.47
15	130.6	5.14	112.9	4.45



Width of sprockets: 30.0 mm (1.18 in.)
Tooth width: 15.0 mm (0.59 in.)
Standard material: PA6

Placing of Sprockets



Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni Flex L-ASB	2500	562	1200	270

Pitch 50.8 mm (2.00 in.)

uni MPB – the most cleanable plastic modular belt in the world

The uni MPB belt is the most cleanable, 2 in. pitch, straight running plastic modular belt in the world and the belt holds the valid NSF/USDA approvals. The belt is used in various food applications and offers various styles from closed and open surfaces to roller or rubber top.

The uni MPB belt is the preferred belt in the following industries/ applications:

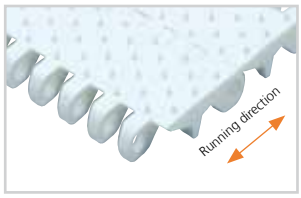
- Meat applications (beef & pork) including deboning lines, fat/trim lines, cutting lines, offal lines, evisceration lines, Packaging lines and elevator/ incline conveyors
- Poultry applications including cage dumper lines, deboning lines, fat/ trim lines, offal lines, grading lines, packaging lines and elevator/incline conveyors
- Fruit & vegetable applications including elevators, steam peeler lines, inspection tables, blanchers and packaging lines
- Seafood applications including bulk feeder, elevators, inspection tables, grading lines, glazing lines, cooling and freezing lines
- Snack food applications including fryer discharge and incline applications

Product features and operational benefits:

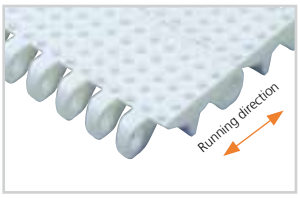
- Easy to clean Single Link® belt (no brick lay) reducing downtime for cleaning with up to 70%
- Single Link® belt reducing bacteria growth and eliminating knives sticking in belt seams
- Unique lockpin locking system
- Unique sprocket engagement
- Strong and thick product supports allowing load without breakage
- Stick and non stick surfaces allowing optimized product throughput

Standard Selection

uni MPB C



uni MPB G*



uni MPB N*

** Indent: uni MPB GE and uni MPB NE are 35.0 mm (1.38 in.).*

uni MPB 18%

uni MPB 20%

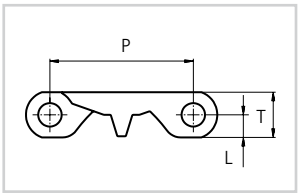
uni MPB 22%

uni MPB 16%

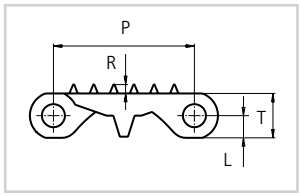
uni MPB RO

uni MPB Rubber Top
Type RB4

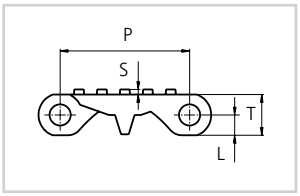
Dimensional Sketches



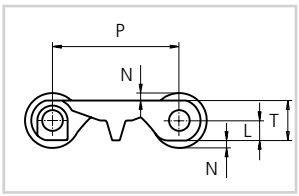
uni MPB | uni MPB 16% |18% | 20% | 22%



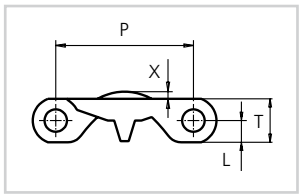
uni MPB G | uni MPB GE



uni MPB N | uni MPB NE



uni MPB RO



uni MPB Rubber Top
Type RB4

Dimensions

	mm	in.		mm	in.		mm	in.
L	8.0	0.31	**R**	3.2	0.13	**X**	3.5	0.14
N	3.0	0.12	**S**	2.0	0.08	**-**	-	-
P	50.8	2.00	**T**	16.0	0.63	**-**	-	-

Straight running

50.8 mm (2.00 in.)

ø8 mm (0.31 in.)

Patent — Patented

Materials — See page 8

65 mm (2.6 in.)
Side Guards: 200 mm (7.9 in.)

See pages 93 and 94

See page 172

01 N See page 12

Alternatives

PP W **PE** W **PA6.6** N
SS304 **PBT** LG

PA6.6 B **PBT** LG

Accessories

See page 96

See page 95

See page 96

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni MPB C	POM-DI W	PP W
	POM-DI B	PP W
	PP W	PP W
	PP B	PP W
	PE-I N	PE W
	PE-I B	PE W
uni MPB G	POM-DI W	PP W
uni MPB GE	POM-DI W	PP W
uni MPB N	PE-I N	PE W
uni MPB NE	PE-I N	PE W
uni MPB 16%	PE-I N	PE W
	PP W	PP W
uni MPB 18%	POM-DI W	PP W
	PP W	PP W
	PE-I N	PE W
	PP-HW B	PP-HW LB
uni MPB 20%	PE-I N	PE W
	PP W	PP W
uni MPB 22%	PE-I N	PE W
	PE-I B	PE W
	PP W	PP W
uni MPB RO*	POM-DI G	PP N
uni MPB Rubber Top RB4	POM-DI W + 01 N	PA6.6 N

* Roller Standard material and color for uni MPB RO:

POM-DI B

Alternative pin materials and colors. See page 89.

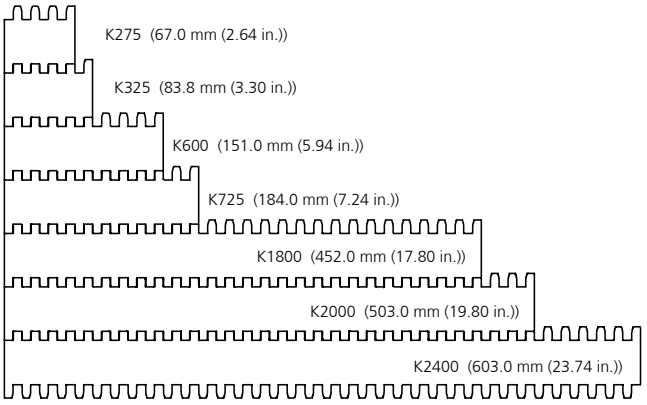
Standard Bricklayed Belt Widths (See below for Single Link® widths)

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

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni MPB Single Link®

uni MPB Single Link® is available in the following standard widths:



uni MPB Single Link® standard materials and colors see page 90.

uni MPB Single Link® Belt Widths

Belt type and widths	K275 67.0 mm (2.64 in.)	K325 83.8 mm (3.30 in.)	K600 151.0 mm (5.94 in.)	K725 184.0 mm (7.24 in.)	K1800 452.0 mm (17.80 in.)	K2000 503.0 mm (19.80 in.)	K2400 603.0 mm (23.74 in.)
uni MPB C	X	X	X	X	X	X	X
uni MPB 16%			X				
uni MPB 18%	X	X	X	X			
uni MPB 20%	X	X	X	X			
uni MPB 22%			X	X			
uni MPB G | uni MPB GE			X				
uni MPB N | uni MPB NE			X				
uni MPB RO			X	X			
uni MPB Rubber Top			X				

Belt Weights

Belt material	POM-DI		PP		PE	
Pin material	plastic		plastic		plastic	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni MPB C	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB G	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB GE	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB N	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB NE	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB Rubber Top	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB 16%	11.1	2.27	7.5	1.54	8.0	1.64
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 RO*	11.3	2.31	-	-	-	-

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

Permissible Tensile Strength

Belt material	POM-DI		PP		PE	
Pin material	plastic		plastic		plastic	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni MPB C	27500	1884	16000	1096	13000	891
uni MPB G	27500	1884	16000	1096	13000	891
uni MPB GE	27500	1884	16000	1096	13000	891
uni MPB N	27500	1884	16000	1096	13000	891
uni MPB NE	27500	1884	16000	1096	13000	891
uni MPB 16%	27500	1884	16000	1096	13000	891
uni MPB 18%	27500	1884	16000	1096	13000	891
uni MPB 20%	27500	1884	16000	1096	13000	891
uni MPB 22%	27500	1884	16000	1096	13000	891
uni MPB Rubber Top	27500	1884	16000	1096	13000	891
uni MPB RO	11000	754	-	-	-	-

Max. Load per Roller

	Max. permissible static load		Max. permissible dynamic load (accumulation)	
	N	lbf	N	lbf
uni MPB RO	2200	495	100	23

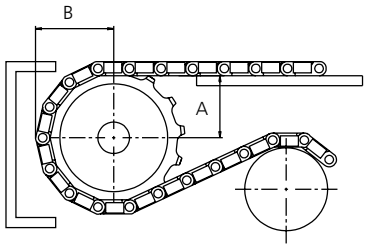
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	101.6	4.00	99.5	3.92	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH06111N00
							sq 38.1	sq 1.50	183PA6MPBH06111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH06111LG00M040S
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH08111LG00
							sq 38.1	sq 1.50	183PA6MPBH08111LG00I150S
							sq 40.0	sq 1.57	183PA6MPBH08111N00M040S
					100.0	3.94	sq 50.8	sq 2.00	183PA6MPBH08111N00I200S
10	164.4	6.47	166.3	6.55	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10111N00
							sq 38.1	sq 1.50	183PA6MPBH10111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10111LG00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	183PA6MPBH10111LG01
							sq 50.8	sq 2.00	183PA6MPBH10111N00I200S
							sq 63.5	sq 2.50	183PA6MPBH10111N00I250S
							sq 60.0	sq 2.36	183PA6MPBH10111LG00M060S
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH12111LG02
							sq 38.1	sq 1.50	183PA6MPBH12111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH12111N00M040S
					120.0	4.72	ø40.0/70.0*	1.57/2.76*	183PA6MPBH12111N01
							sq 50.8	sq 2.00	183PA6MPBH12111N00I200S
							sq 60.0	sq 2.36	183PA6MPBH12111N00M060S
16	260.4	10.25	263.8	10.04	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH16111N00
					150.0	5.91	ø40.0/70.0*	1.57/2.76*	183PA6MPBH16111N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	60.9	2.40	36.2	1.43
8	76.8	3.02	53.6	2.11
10	92.8	3.65	70.5	2.78
12	108.8	4.28	87.2	3.43
16	141.1	5.56	120.2	4.73



Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 9.5 mm (0.37 in.)
Standard material: PA6

Other sprocket are available upon request. Two-part sprockets are available upon request.
Please note, if travel is in both directions, an extra set of sprockets is required. Alternatively use bi-directional options. (See next page.)

Max. Load per Sprocket

Belt material	POM-DI	
	N	lbf
uni MPB with snub roller	2000	450
uni MPB without snub roller	1250	281

Standard Bi-directional Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	164.4	6.47	166.3	6.55	65.0 [1]	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10221N00
							sq 38.1	sq 1.50	183PA6MPBH10221N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10221LG00M040S
					120.0 [1]	4.72	ø40.0/70*	ø1.57/2.76*	183PA6MPBH10221N01
							sq 60.0	sq 2.36	183PA6MPBH10221N00M060S
							sq 63.5	sq 2.50	183PA6MPBH10221N00I250S
12	196.3	7.73	198.6	7.82	120.0 [1]	4.72	sq 60.0	sq 2.36	183PA6MPBH12221N00M060S
					113.0 [2]	4.45	sq 60.0	sq 2.36	183PA6MPBH12221LG01M060S
					156.0 [2]	6.14	sq 90.0	sq 3.54	183PA6MPBH12221LG01M090S
16	260.4	10.25	263.8	10.04	114.0 [2]	4.49	sq 60.0	sq 2.36	183PA6MPBH16221LG01M060S**
					156.0 [2]	6.14	sq 90.0	sq 3.54	183PA6MPBH16221LG01M090S**

** Minimum/maximum round bore.*

*

Width of sprockets: [1] 42.3 mm (1.67 in.)
[2] 50.0 mm (1.97 in.)
Standard material: PA6

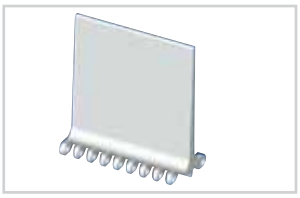
**

Width of sprockets: 50.0 mm (1.97 in.)
Tooth width: 17.0 mm (0.67 in.)
Standard material: PA6

Other sprocket sizes are available upon request.

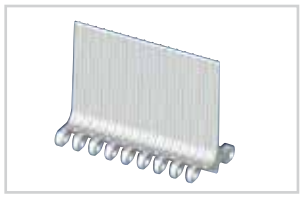
Two-part sprockets are available upon request.

Accessories | Product Support

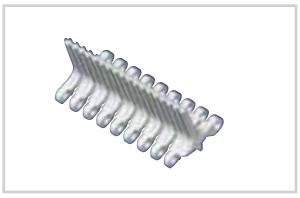


uni MPB
Product Support Flat

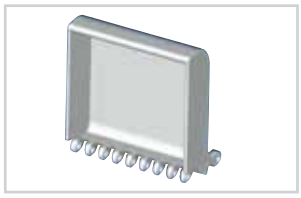
uni MPB
Product Support Bent



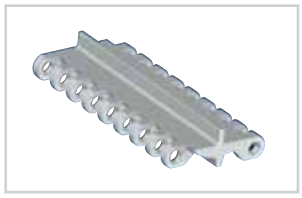
uni MPB
Product Support No Cling



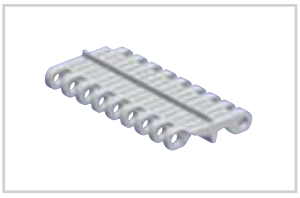
uni MPB
Product Support No Cling Drain 10%



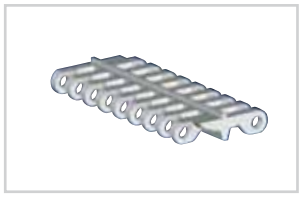
uni MPB
Product Support Cupped



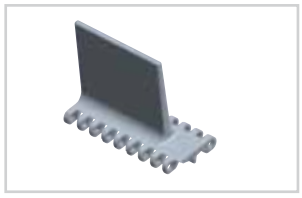
uni MPB
Product Support Micro



uni MPB
Product Support Micro 20%



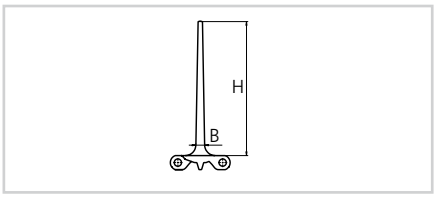
uni MPB
Product Support Micro 22%



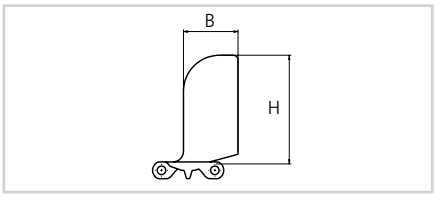
uni MPB
Product Support molded Indent 34 mm (1.34 in.)

Note: Depending on height and spacing the use of product supports may influence the backflex radius.

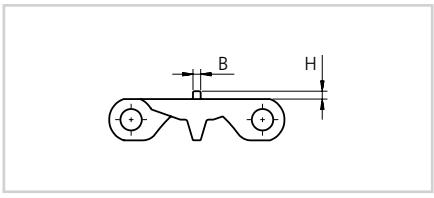
Dimensional Sketches



uni MPB
Product Support Flat | Bent | NC | NC Drain



uni MPB
Product Support Cupped

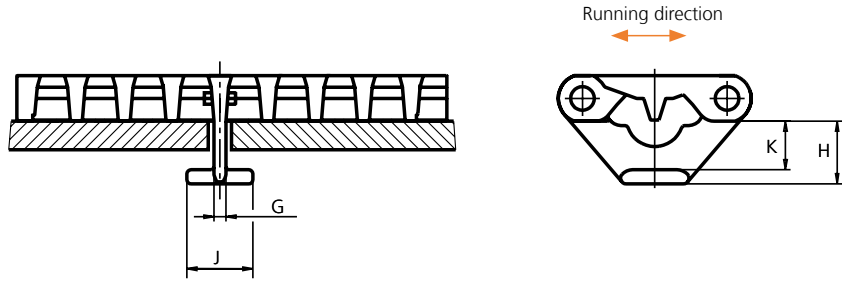


uni MPB
Product Support Micro | Micro 20% | Micro 22%

Standard Materials, Colors and Dimensions

Style	H		B		Width			Standard materials & colors		
	mm	in.	mm	in.	Type	mm	in.	POM-D	PE-I	PP-I
Product Support Flat	25.4	1.00	7.3	0.29	K600	151.0	5.94	W B	B N	W B
	50.8	2.00	8.2	0.32	K600	151.0	5.94	W B	B N	W B
	76.2	3.00	9.1	0.36	K600	151.0	5.94	W B	B N	W B
	101.6	4.00	10.0	0.39	K600	151.0	5.94	W B	B N	W B
	152.4	6.00	10.0	0.39	K600	151.0	5.94	W B	B N	W B
Product Support Bent	76.2	3.00	9.2	0.36	K600	151.0	5.94			W B
	101.6	4.00	9.2	0.36	K600	151.0	5.94		N	W B
	152.4	6.00	9.2	0.36	K600	151.0	5.94			W B
Product Support No Cling	76.2	3.00	9.6	0.38	K600	151.0	5.94		B N	W B
	101.6	4.00	10.5	0.41	K600	151.0	5.94		B N	W B
Product Support No Cling Drain	50.8	2.00	8.7	0.34	K600	151.0	5.94		B N	W B
	76.2	3.00	9.6	0.38	K600	151.0	5.94		B N	W B
	101.6	4.00	10.5	0.41	K600	151.0	5.94		B N	W B
Product Support Cupped	101.6	4.00	52.0	2.05	K600	151.0	5.94			W
Product Support Micro	5.0	0.20	3.0	0.12	K600	151.0	5.94		N	
	10.0	0.39	3.0	0.12	K600	151.0	5.94		N	W
Product Support Micro 20%	5.0	0.20	3.0	0.12	K600	151.0	5.94		N	
Product Support Micro 22%	3.0	0.12	3.0	0.12	K600	151.0	5.94		N	W
Product Support molded indent 34 mm (1.34 in.)	101.6	4.00	10.0	0.39	K600	151.0	5.94			W B

Accessories | Tab



uni MPB Tab

Dimensions

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

Note: When using tabs, please verify sufficient clearance to the shaft.

Max. shaft diameter = Sprocket pitch diameter - 63.5 mm (2.50 in.).

When using square shafts, please verify that the diagonal does not exceed max. diameter.

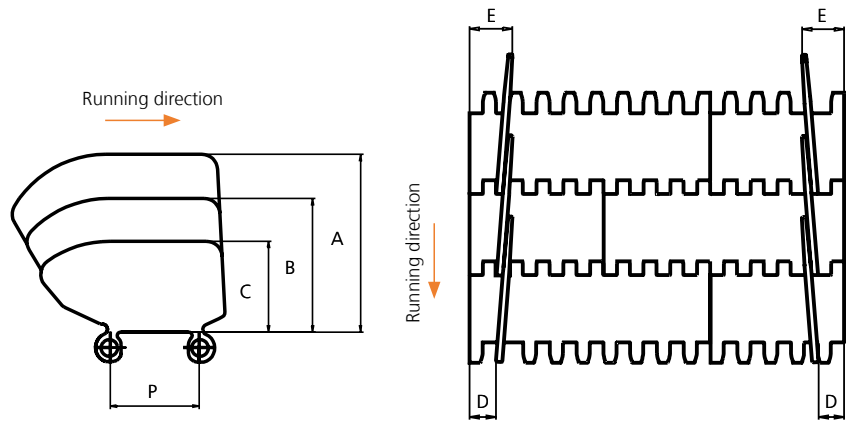
Example: Sprocket z = 6: Max. shaft diameter 101.6 - 63.5 = ø38.1 mm (4.00 - 2.50 = ø1.4 in.).

Standard Material and Color

POM-DI	W

Note: When using a belt system with tabs, the temperature should be constant.
Please note that the tabs are not always placed in the middle of the belt.

Accessories | Tab



uni MPB Side Guard

Dimensions

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

** 34.0 mm (1.34 in.) combined with Product Support.*

Increment: 8.4 mm (0.33 in.).

Note: Side Guards can not be positioned on top of G and N cones.

Standard Materials, Colors and Dimensions

Height		Standard materials & colors	
mm	in.	PE-I	PP-I
50.8	2.00	B N	W B
76.2	3.00	B N	W B
101.6	4.00	B N	W B

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

Pitch 50.8 mm (2.00 in.)

uni RTB - State of The Art in Roller Top Modular Belts

The uni RTB belt is the most flexible and reliable handling solution for your products to be conveyed.

Numerous options for roller positioning and diameters make uni RTB the smartest straight running modular belt.

The Pinless Snap Link® design enables easy assembling and provides product reliability. No pins are used to join the links of these belts, removing issues with pin retention and removal.

Fully modular system of components, with snap in rollers and Pinless Link modules uni RTB belts can be configured and assembled to suit each application.

Totally flexible modular system, components can be easily disassembled and reconfigured into different combinations.

Product features and operational benefits:

- Low friction rollers in belt surface enable accumulation of products with minimum line pressure, resulting in gentle handling of products.
- Especially suitable for accumulation of products with higher friction surfaces.
- Free running rollers remove risk of scratching or marking product surface during accumulation.
- Rollers can be arranged to allow sideways transfer of products onto and off these belts with only low forces applied to products conveyed.
- Flexible roller positioning, rollers in six different positions, 0°, 30°, 60°, 90°, 120° and 150°.
- Roller height 3mm or 6mm above belt top surface.

Standard Selection

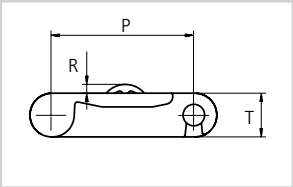
uni RTB M1

uni RTB M2*

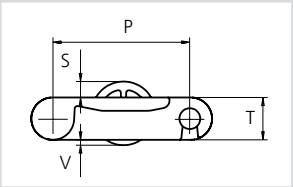
uni RTB M2 Rubber Top*

*** Note: Third party system patents exist covering some possible roller belt applications*

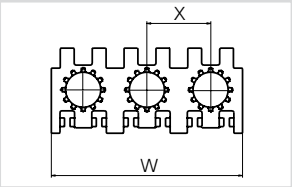
Dimensional Sketches



uni RTB M1



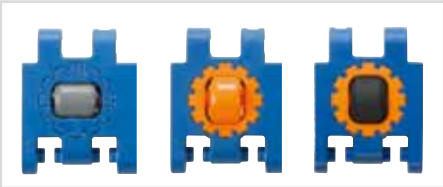
uni RTB M2



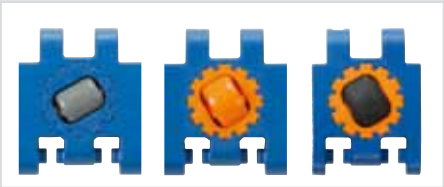
uni RTB M1 | uni RTB M2 | uni RTB M2 Rubber Top

Dimensiones for rollers:
uni RTB M1: 17.9 mm (0.70 in.) | uni RTB M2 & uni RTB M2 Rubber Top: 23.9 mm (0.94 in.)

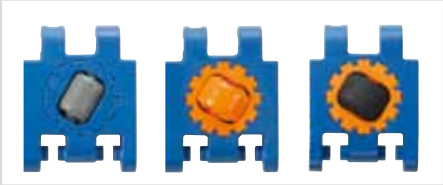
Roller Positions



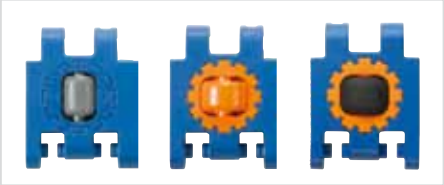
uni RTB M1 | uni RTB M2 | uni RTB M2 Rub.
000°



uni RTB M1 | uni RTB M2 | uni RTB M2 Rub.
030°

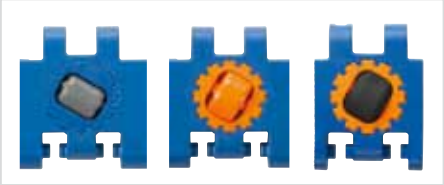


uni RTB M1 | uni RTB M2 | uni RTB M2 Rub.
060°



uni RTB M1 | uni RTB M2 | uni RTB M2 Rub.
090°

uni RTB M1 | uni RTB M2 | uni RTB M2 Rub.
120°



uni RTB M1 | uni RTB M2 | uni RTB M2 Rub.
150°

Straight running

50.8 mm (2.00 in.)

Materials See page 8

65.0 mm (2.56 in.)

See page 100

See page 172

Dimensions

	mm	in.
P	50.8	2.00
T	16.0	0.63
R	3.0	0.12
W	152.8	6.00
X	50.8	2.00

uni RTB M1
The rollers are only extending on one side of the belt - the top. Accumulation roller provide less friction between the belt and the conveyed product and ensure the best possible sideways loading of the belt.

uni RTB M2
The rollers are only extending on two sides of the belt - the top and the bottom. When the belt rollers are rotation, the sonveyed products will move faster than the belt. When the belt rollers do not rotate, the conveyed product will travel at belt speed.

Mounting positions
0° = Rollers rotate in travel direction.
30° = Roller pins angled counter clockwise 30° (move products to the left).
60° = Roller pins angled counter clockwise 60° (move products to the left).
90° = Roller pins rotate perpendicularly to the travel direction.
120° = Roller pins angled counter clockwise 120° (move products to the right).
150° = Roller pins angled counter clockwise 150° (move products to the right).

Standard Materials and Colors

Type	Standard materials and colors	Standard roller materials and colors	Standard cover plate materials and colors	Standard pin for rollers
uni RTB M1	POM-S B	POM-NL G	POM-NL B	SS304
uni RTB M2	POM-S B	POM-NL O	POM-NL O	SS304
uni RTB M2 Rubber Top	POM-S B	01 K / POM-NL O	POM-NL O	SS304

uni RTB belts are fitted with cover plates closing gaps surrounding the rollers to increase safety.
Upon request uni RTB belts can be supplied without cover plates to increase aitflow- cooling/belt cleanability.

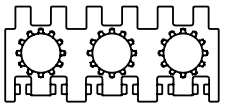
Standard Bricklayed Belt Widths (See below for Single Link® width)

mm	in	mm	in	mm	in	mm	in
153	6.0	509	20.0	865	34.1	1222	48.1
204	8.0	560	22.0	916	36.1	1273	50.1
255	10.0	611	24.0	967	38.1	1323	52.1
305	12.0	662	26.1	1018	40.1	1374	54.1
356	14.0	713	28.1	1069	42.1	1425	56.1
407	16.0	764	30.1	1120	44.1	1476	58.1
458	18.0	814	32.1	1171	46.1	1527	60.1

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni RTB Single Link®

uni RTB Single Link® is available in the following standard width:



K600 (152.8 mm (6.00 in.))

Coverplate/Sketch coverplate

uni RTB belts are standard fitted with coverplates closing gaps surrounding the rollers to increase safety.

Upon request uni RTB belts can be supplied without coverplates to increase airflow- cooling/cleanability arround the roller.

uni RTB M1 Single Link® standard materials and colors see page 98.

Belt Weights

Belt material	POM	
	kg/m²	lb/ft²
uni RTB M1 | uni RTB M2	14.5	4.12

Permissible Tensile Strength

Belt material	POM	
	N/m	lbf/ft
uni RTB M1 | uni RTB M2	27500	1884

Max. Load per Roller

Belt material	Max. permissible static load		Max. permissible dynamic load	
	N	lbf	N	lbf
uni RTB M1	3000	674	100	23
uni RTB M2	2000	449	100	23

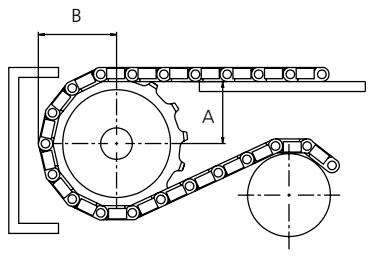
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	101.6	4.00	99.5	3.92	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH06111N00
							sq 38.1	sq 1.50	183PA6MPBH06111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH06111LG00M040S
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH08111LG00
							sq 38.1	sq 1.50	183PA6MPBH08111LG00I150S
							sq 40.0	sq 1.57	183PA6MPBH08111N00M040S
					100.0	3.94	sq 50.8	sq 2.00	183PA6MPBH08111N00I200S
10	164.4	6.47	166.3	6.55	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH10111N00
							sq 38.1	sq 1.50	183PA6MPBH10111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH10111LG00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	183PA6MPBH10111LG01
							sq 50.8	sq 2.00	183PA6MPBH10111N00I200S
							sq 63.5	sq 2.50	183PA6MPBH10111N00I250S
							sq 60.0	sq 2.36	183PA6MPBH10111LG00M060S
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH12111LG02
							sq 38.1	sq 1.50	183PA6MPBH12111N00I150S
							sq 40.0	sq 1.57	183PA6MPBH12111N00M040S
					120.0	4.72	ø40.0/70.0*	1.57/2.76*	183PA6MPBH12111N01
							sq 50.8	sq 2.00	183PA6MPBH12111N00I200S
							sq 60.0	sq 2.36	183PA6MPBH12111N00M060S
16	260.4	10.25	263.8	10.04	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	183PA6MPBH16111N00
					150.0	5.91	ø40.0/70.0*	1.57/2.76*	183PA6MPBH16111N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	59.5	2.34	36.2	1.43
8	75.1	2.96	53.6	2.11
10	91.0	3.58	70.5	2.78
12	107.0	4.21	87.2	3.43
16	139.2	5.48	120.2	4.73



Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 9.5 mm (0.37 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM	
	N	lbf
uni RTB M1	2000	450
uni RTB M2	2000	450

Pitch 63.5 mm (2.50 in.)

uni XLB M2 – the strongest belt in the "uni-Verse"

uni XLB M2 2.5 in. pitch, straight running belt is designed for heavy duty conveyors. It is perfect belt to replace steel slat top chains, drag chains and other technologies used for high wear or heavy duty applications.

The uni XLB M2 (Closed Top, Rough Top and V-Shape) belts have increased performance in the following industries/ applications:

- Automotive applications including skid conveyors, manrider belts, car conveyors, leak tests
- Carwash applications including carwash and interior detailing areas
- Material handling applications including pallet handling and moving large paper rolls
- Meat (beef & pork) applications including shackle tables and gam tables

Product features and operational benefits:

- No lubrication required
- Reduced horsepower thanks to low friction materials
- Reduced downtime thanks to easy maintenance
- Reduced noise level
- Extreme wear and impact resistance
- Unique sprocket engagement enabling long conveyors with reduced pulsation
- Rough top surface reducing slippage and providing safe movements

Standard Selection

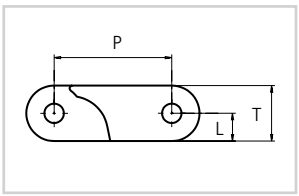
uni XLB M2 C

uni XLB M2 C Rough

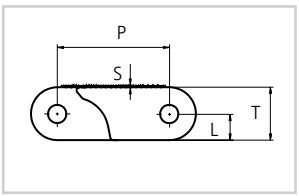
uni XLB M2 15% Rough

uni XLB M2 V8

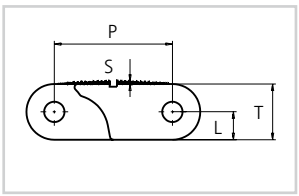
Dimensional Sketches



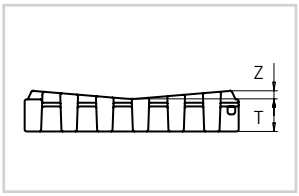
uni XLB M2 C



uni XLB M2 C Rough



uni XLB M2 15% Rough



uni XLB M2 V8

Straight running

63.5 mm (2.50 in.)

ø10 mm (0.39 in.)

See page 8

100 mm (3.9 in.)

See page 104

See page 172

Alternatives

PA6.6 N SS304

Accessories

See page 105

Dimensions

	mm	in.
L	15.0	0.59
P	63.5	2.50
S	1.5	0.06
T	30.0	1.18
Z	8.0	0.31

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni XLB M2 C	**POM-NLAS** K	**PA6.6** N	**PP** D
	POM-NL K	**PA6.6** N	**PP** D
uni XLB M2 C Rough	**POM-NLAS** K	**PA6.6** N	**PP** D
uni XLB M2 15% Rough	**POM-NLAS** K	**PA6.6** N	**PP** D
uni XLB M2 V8	**POM-D** K	**PA6.6** N	**PP** D

Alternative pin materials and colors: **PA6.6** N SS304

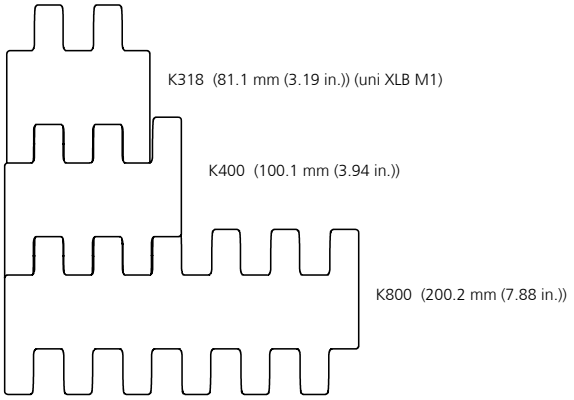
Standard Bricklayed Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
100	3.9	501	19.7	902	35.5	1302	51.3	1703	67.0	2104	82.8	2504	98.6	2905	114.4
200	7.9	601	23.7	1002	39.4	1402	55.2	1803	71.0	2204	86.8	2604	102.5	3005	118.3
301	11.8	701	27.6	1102	43.4	1503	59.2	1903	74.9	2304	90.7	2705	106.5	3105	122.3
401	15.8	801	31.5	1202	47.3	1603	63.1	2003	78.9	2404	94.6	2805	110.4	3205	126.2

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni XLB M2 Single Link®

uni XLB M2 Single Link® is available in the following standard widths:



uni XLB M2 Single Link® standard materials and colors see page 102.

uni XLB M2 Single Link® Belt Widths

Belt type and widths	K318 (M1) 81.1 mm (3.19 in.)	K400 100.1 mm (3.94 in.)	K800 200.2 mm (7.88 in.)
uni XLB M2 C	SLO	X	X
uni XLB M2 C Rough		X	X
uni XLB M2 15% Rough		X	X
uni XLB M2 V8			X

SLO = *Single Link only*

Belt Weights

Belt material	POM-NL | POM-NLAS			
Pin material	**PA6.6**		**SS**	
	kg/m²	**lb/ft²**	**kg/m²**	**lb/ft²**
uni XLB M2	31.0	6.35	40.8	8.36
uni XLB M2 V8	33.9	6.94	42.3	8.66

Permissible Tensile Strength

Belt material	POM-NL | POM-NLAS			
Pin material	**PA6.6**		**SS**	
	N/m	**lbf/ft**	**N/m**	**lbf/ft**
uni XLB M2	90000	6210	100000	6900

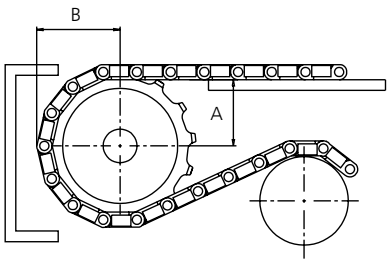
Standard Bi-directional Sprockets for uni XLB M2

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	205.5	8.09	202.6	7.98	70.0	2.76	ø18.0/60.0*	ø0.71/2.36*	733PA6XLB10221N00
							sq 38.1	sq 1.50	733PA6XLB10221N00I150S
							sq 40.0	sq 1.57	733PA6XLB10221N01M040S
					100.0	3.94	ø41.0/90.0*	ø1./3.54*	733PA6XLB10221LG01
					100.0	3.94	sq 63.5	sq 2.50	733PA6XLB10221N00I250S
							sq 50.8	sq 2.00	733PA6XLB10221N00I200S
							sq 60.0	sq 2.36	733PA6XLB10221N00M060S
					155	6.10	sq 90.0	sq 3.54	733PA6XLB10221N00M090S
13	265.3	10.44	264.4	10.41	235	9.25	ø18.0/200.0*	ø0.71/7.87*	733PA6XLB13221N00
					135	5.31	sq 76.2	sq 3.00	733PA6XLB13221LG00I300S
15	305.4	12.02	305.9	12.04	255	10.04	ø70.0/250.0*	ø2.76/9.84*	733PA6XLB15221N00
					150	5.91	sq 63.5	sq 2.50	733PA6XLB15221N00I250S
					150.0	5.91	sq 90.0	sq 3.54	733PA6XLB15221LG00M090S
					195.0	7.68	sq 120.0	sq 4.72	733PA6XLB15221LG00M120S
					220.0	8.66	sq 140.0	sq 5.51	733PA6XLB15221LG00M140S
20	405.9	15.98	407.1	16.03	360	14.17	ø70.0/350	ø2.76/13.78	733PA6XLB20221N00
							sq 38.1	sq 1.50	733PA6XLB20221N00I150S
							sq 50.8	sq 2.00	733PA6XLB20221N00I200S
							sq 63.5	sq 2.50	733PA6XLB20221N00I250S
							sq 40.0	sq 1.57	733PA6XLB20221N00M040S
							sq 60.0	sq 2.36	733PA6XLB20221N00M060S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	117.7	4.63	82.7	3.26
13	147.7	5.81	113.8	4.48
15	168.0	6.61	134.7	5.30
20	218.0	8.58	185.5	7.30



Other sprocket sizes are available upon request.

Two-part sprockets are available upon request.

uni XLB M2 Sprocket

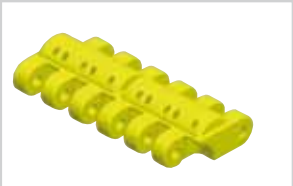
uni XLB M2 Sprocket (M)

Width of sprockets: 33.0 mm (1.30 in.)
Tooth width: 16.0 mm (0.63 in.)
Standard material: PA6

Max. Load per Sprocket

	N	lbf
uni XLB M2	12000	2700

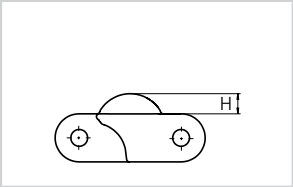
Accessories | Product Support | Car Pusher



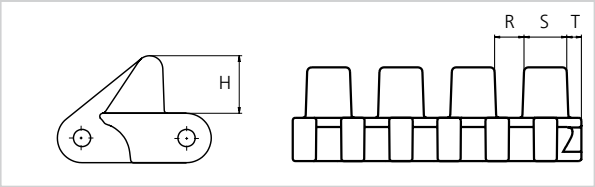
uni XLB M2 Product Support

uni XLB M2 Car Pusher

Dimensional Sketches



uni XLB M2 Product Support



uni XLB M2 Car Pusher

Dimensions

	mm	in.
R	18.1	0.71
S	32.0	1.26
T	9.0	0.35

Standard Materials, Colors and Dimensions

Style	H		Width			Standard materials & colors	
	mm	in.		mm	in.	POM-DK	POM-D UV
uni XLB M2 Product Support	12.5	0.49	K400	101.6	4.00		**Y**
	12.5	0.49	K800	199.6	7.86		**Y**
uni XLB M2 Car Pusher	35.0	1.38	K800	199.6	7.86	**O**	

Pitch 63.5 mm (2.50 in.)

uni X-MPB – the strongest hygienic belt for the food industry

The uni X-MPB is part of the cleanable uni MPB series used mainly in various food applications. The 2.5 in. pitch, straight running belt has the highest tensile strength and impact resistance among the food belts available in the uni-chains product range.

The uni X-MPB belt has proven to be a better belt in several industries/applications:

- Meat applications (beef & pork) including deboning lines, fat/trim lines, cutting lines, offal lines, evisceration lines and elevator/ incline conveyors
- Poultry applications including cage dumper lines, deboning lines, fat/ trim lines, offal lines and elevator/ incline conveyors
- Fruit & vegetable applications including elevators and inspection tables

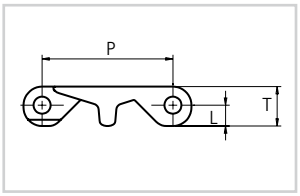
Product features and operational benefits:

- Easy to clean with reduced downtime for cleaning
- Unique lockpin locking system providing with faster and simpler maintenance
- Unique sprocket engagement ensbling higher product load and longer conveyors
- FDA approved materials and USDA accepted construction
- Strong and thick product supports allowing more load without breakage
- Impact resistance to withstand heavy objects falling onto the belt

Standard Selection

uni X-MPB C

Dimensional Sketch



uni X-MPB C

Dimensions

	mm	in.
L	10.1	0.40
P	63.5	2.50
T	19.1	0.75

Straight running

63.5 mm (2.50 in.)

ø8 mm (0.31 in.)

Patent pending

See page 8

75 mm (2.95 in.)

See page 109

See page 172

Alternatives

PP W **PA6.6** B **PBT** LG

Accessories

See page 108

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni X-MPB C	**POM-DI** W	**PA6.6** N
	PE-I N	**PA6.6** N

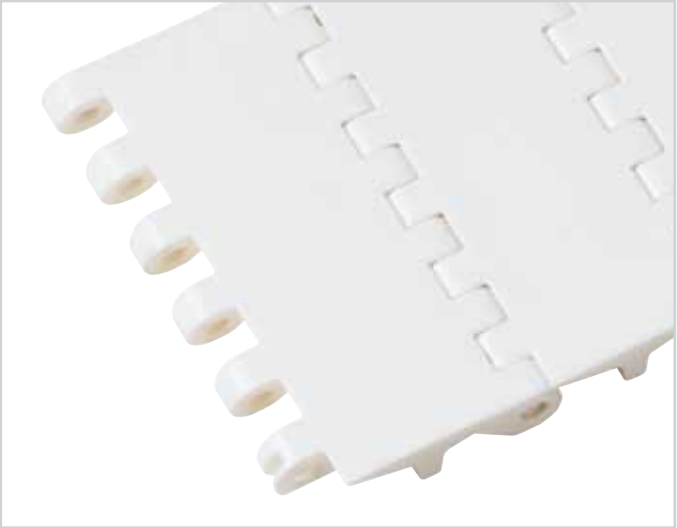
Alternative pin materials and colors: **PP** W **PA6.6** B **PBT** LG

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

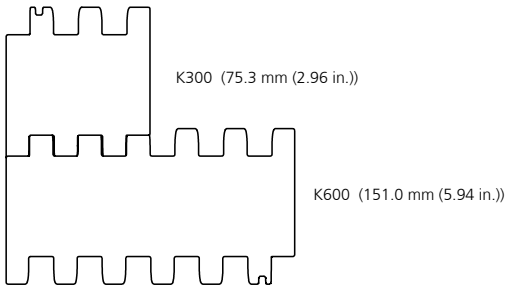
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
75	3.0	679	26.7	1283	50.5	1887	74.3	2490	98.0
151	5.9	755	29.7	1358	53.5	1962	77.2	2566	101.0
226	8.9	830	32.7	1434	56.4	2037	80.2	2641	104.0
302	11.9	906	35.7	1509	59.4	2113	83.2	2717	107.0
377	14.9	981	38.6	1585	62.4	2188	86.2	2792	109.9
453	17.8	1056	41.6	1660	65.4	2264	89.1	2868	112.9
528	20.8	1132	44.6	1736	68.3	2339	92.1	2943	115.9
604	23.8	1207	47.5	1811	71.3	2415	95.1	3019	118.8

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni X-MPB Single Link®



uni X-MPB Single Link® is available in the following standard widths:



uni X-MPB Single Link® standard materials and colors see page 107.

Belt Weights

Belt material	POM-DI				PE-I	
Pin material	PP		PA6.6		PE	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni X-MPB C	14.5	2.96	14.7	3.00	10.0	2.05

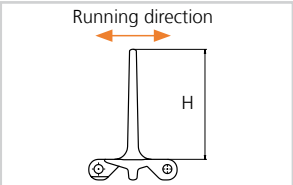
Permissible Tensile Strength

Belt material	POM-DI				PE-I	
Pin material	PP		PA6.6		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni X-MPB C	30000	2056	37500	2570	10000	685

Accessories | Product Support

uni X-MPB Product Support

Dimensional Sketch



uni X-MPB Product Support

Standard Materials, Colors and Dimensions

H		Width			Standard materials & colors
mm	in.	Type	mm	in.	POM-DI
101.6	4.00	K600	151.0	5.94	W

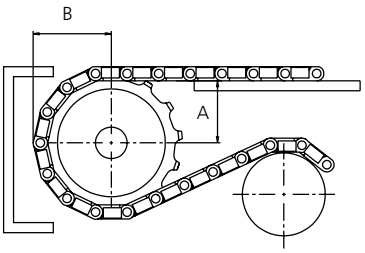
Standard Bi-directional Sprockets for uni X-MPB

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no.
	mm	in.	mm	in.	mm	in.	mm	in.	
6	126.0	4.96	124.2	4.89	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	803PA6XMPB06221N00
8	164.6	6.48	165.6	6.52	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	803PA6XMPB08221N00
10	203.9	8.03	206.6	8.13	120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	8033XMPB10NBBR2
13	265.3	10.44	267.8	10.54	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	803PA6XMPB13221N00
					120.0	4.72	sq 38.1	sq 1.50	803PA6XMPB13221N00I150S
							sq 63.5	sq 2.50	803PA6XMPB13221N00I250S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	72.5	2.85	44.9	1.77
8	92.0	3.62	66.6	2.62
10	111.7	4.40	87.6	3.45
13	141.7	5.58	118.7	4.67



Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 12.0 mm (0.47 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Pitch 12.7 mm (0.50 in.)

uni M-PNB M1
– a new pinless design belt

This pinless design is an exclusive uni-chains 0.5 in. pitch belt including the new uni Snap Link® feature. An open belt with no pin makes assembly and disassembly an exceptionally simple operation. The design of uni M-PNB M1 provides the maximum amount of open area for drainage and airflow with minimum product contact. The belt reduces dirt/debris compared to e.g. a wire mesh belt.

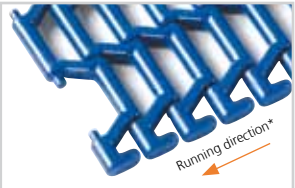
The uni M-PNB M1 belt with its unique features is the perfect belt in the following industries/ applications:

- Bakery applications including cooling lines, freezing lines and icing lines
- Poultry applications
- Seafood applications
- Weighing lines

Product features and operational benefits:

- Easy to clean with reduced downtime for cleaning
- Small transfer in nosebar applications
- uni Snap Link® feature eliminating pin walking and pins coming out
- uni Snap Link® feature improves belt weight uniformity

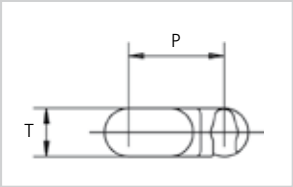
Standard Selection



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

uni M-PNB M1
Surface opening 40%

Dimensional Sketch



uni M-PNB M1

Dimensions

	mm	in.
P	12.7	0.50
T	6.4	0.25

Straight running

12.7 mm (0.50 in.)

Patent — Patent pending

Materials — See page 8

12.5 mm (0.49 in.)

See page 113

See page 172

Standard Materials and Colors

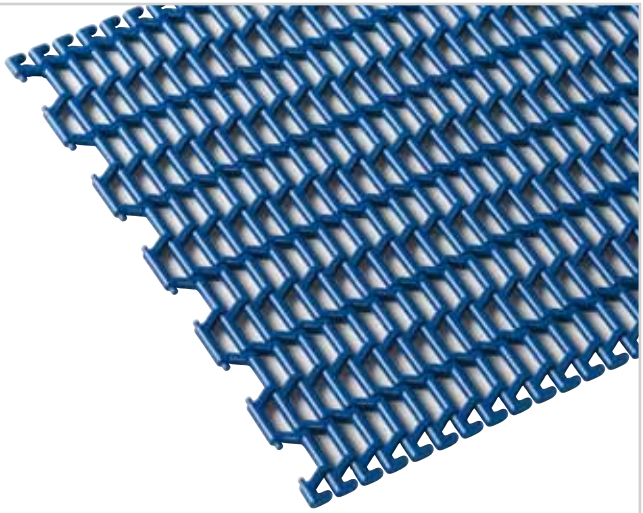
Type	Standard material and colors
uni M-PNB M1	**POM-S** **B** **W**

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

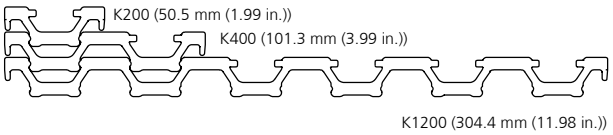
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
51	2.0	660	26.0	1269	50.0	1878	73.9	2487	97.9
102	4.0	711	28.0	1320	52.0	1929	75.9	2538	99.9
152	6.0	762	30.0	1371	54.0	1979	77.9	2588	101.9
203	8.0	812	32.0	1421	55.9	2030	79.9	2639	103.9
254	10.0	863	34.0	1472	58.0	2081	81.9	2690	105.9
305	12.0	914	36.0	1523	60.0	2132	83.9	2741	107.9
356	14.0	965	38.0	1573	61.9	2182	85.9	2791	109.9
406	16.0	1015	40.0	1624	63.9	2233	87.9	2842	111.9
457	18.0	1066	42.0	1675	65.9	2284	89.9	2893	113.9
508	20.0	1117	44.0	1726	68.0	2335	91.9	2944	115.9
559	22.0	1168	46.0	1776	69.9	2385	93.9	2994	117.9
609	24.0	1218	48.0	1827	71.9	2436	95.9	3045	119.9

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni M-PNB M1 Single Link®



uni M-PNB M1 Single Link® is available in the following standard widths:



uni M-PNB M1 standard materials and colors see page 111.

Belt Weights

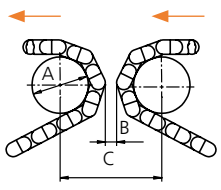
Belt material	POM-S	
	kg/m²	lb/ft²
uni M-PNB M1	4.5	0.92

Permissible Tensile Strength

Belt material	POM-S	
	N/m	lbf/ft
uni M-PNB M1	2000*	137*

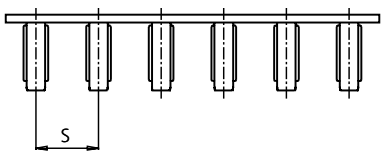
** Please note: strength reduction if: - non-compliance with recommended sprocket distance (50.8 mm (2.00 in.)),*
- use of nosebar

Nosebars Min. Dimensions



	mm	in.
A min.	25.0	0.98
B min.	5.0	0.20
C min.	46.0	1.81

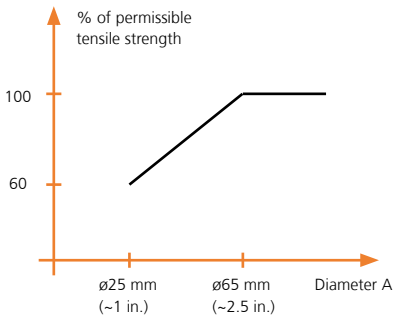
Recommended Sprocket Distance



	mm	in.
S	50.8	2.00

Strength reduced if fewer sprockets are used.

Reduction of Strength

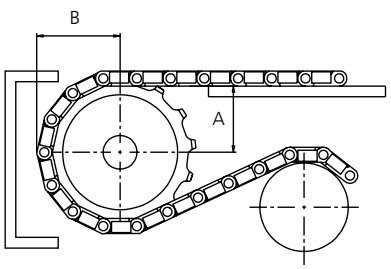


Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
8	33.2	1.31	34.0	1.34	25.0	0.98	ø10.0/15.0	0.39/0.59	833PA6MPNB08211N00
10	41.1	1.62	42.4	1.67	32.0	1.26	ø10.0/20.0	0.39/0.79	833PA6MPNB10211N00
14	57.1	2.25	59.0	2.32	50.0	1.97	ø10.0/20.0	0.39/0.79	833PA6MPNB14211N00
							sq 25.4	sq 1.00	833PA6MPNB14211N00IN100S
							sq 30.0	sq 1.18	833PA6MPNB14211N00M030S
17	69.1	2.72	71.3	2.81	60.0	2.36	ø18.0/45.0	0.71/1.77	833PA6MPNB17211N00
							sq 25.4	sq 1.00	833PA6MPNB17211N00IN100S
							sq 30.0	sq 1.18	833PA6MPNB17211N00M030S
19	77.2	3.04	79.5	3.13	70.0	2.76	ø18.0/50.0	0.71/1.97	833PA6MPNB19211N00
							sq 25.4	sq 1.00	833PA6MPNB19211N00IN100S
							sq 38.1	sq 1.50	833PA6MPNB19211N00IN150S
							sq 40.0	sq 1.57	833PA6MPNB19211N00M040S
24	97.3	3.83	99.8	3.93	90.0	3.54	ø18.0/70.0	0.71/2.76	833PA6MPNB24211N00
							sq 38.1	sq 1.50	833PA6MPNB24211N00IN150S
							sq 40.0	sq 1.57	833PA6MPNB24211N00M040S
							sq 50.8	sq 2.00	833PA6MPNB24211N00IN200S
28	113.4	4.46	116.1	4.57	105.0	4.13	ø18.0/80.0	0.71/3.15	833PA6MPNB28211N00
							sq 38.1	sq 1.50	833PA6MPNB28211N00IN150S
							sq 40.0	sq 1.57	833PA6MPNB28211N00M040S
							sq 50.8	sq 2.00	833PA6MPNB28211N00IN200S
							sq 60.0	sq 2.36	833PA6MPNB28211N00M060S
36	145.7	5.74	148.5	5.85	130.0	5.12	ø18.0/100.0	0.71/3.94	833PA6MPNB36211N00
							sq 38.1	sq 1.50	833PA6MPNB36211N01IN150S
							sq 40.0	sq 1.57	833PA6MPNB36211N01M040S
							sq 50.8	sq 2.00	833PA6MPNB36211N01IN200S
							sq 60.0	sq 2.36	833PA6MPNB36211N01M060S

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
8	20.2	0.80	12.2	0.48
10	24.0	0.94	16.4	0.65
14	31.9	1.26	24.6	0.97
17	37.9	1.49	30.8	1.21
19	41.9	1.65	35.9	1.37
24	52.0	2.05	45.1	1.78
28	60.0	2.36	53.2	2.09
36	76.1	3.00	69.4	2.73



Width of sprockets: 20.0 mm (0.79 in.)
Tooth width: 12.0 mm (0.47 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Pitch 12.7 mm (0.50 in.)

uni M-SNB M3 – strong small pitched belt

The uni M-SNB M3 is developed for tight transfer, high speed and low profile conveyors in both food and non food industries. The 0.5 in. pitch, bi-directional belt ensures product stability even in nosebar and high speed applications thanks to the rounded bottom surface.

uni M-SNB M2 is 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.

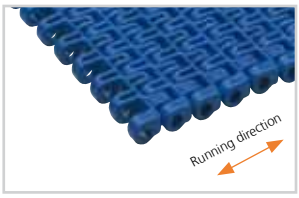
The uni M-SNB M3 belt increases performance in the following industries/applications:

- Bakery applications including general conveyance, cooling lines, metal detectors and packaging lines
- Meat applications including tray pack lines and metal detectors
- Seafood applications including sorting lines and weighing scales
- Beverage applications including depalletizers and accumulation tables
- Can manufacturing applications including palletizers, mass handling, transfer conveyors, discharge conveyors and accumulation tables

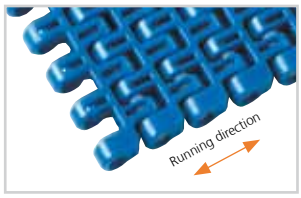
Product features and operational benefits:

- Less vibration in high speed and nosebar applications
- Wear resistance in high speed applications with tight transfers
- Strong bi-directional belt for longer conveyors
- Unique lockpin locking system for easy maintenance
- Unique sprocket engagement reducing pulsation
- Open (flat) top surface increasing product stability and reducing backline pressure

Standard Selection

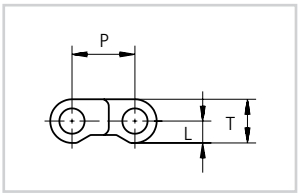


uni M-SNB M2
Surface opening 14%



uni M-SNB M3
Surface opening 14%

Dimensional Sketch



uni M-SNB M2 & M3

Dimensions

	mm	in.
L	4.4	0.17
P	12.7	0.50
T	8.8	0.35

Straight running

12.7 mm (0.50 in.)

ø5 mm (0.20 in.)

Patented

See page 8

20 mm (0.8 in.)

See page 117

See page 172

01 N See page 12

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni M-SNB M2	**POM-D** B	**PA6.6** D
uni M-SNB M3	**POM-D** B	**PA6.6** D
	POM-LF BR	**PA6.6** D
	PP W	**PA6.6** N
	PE N	**PA6.6** N

Alternative pin materials and colors: See to the right.

Alternatives

PE W
PA6.6 B SS304 **PBT** LG

PA6.6 N

PP B W

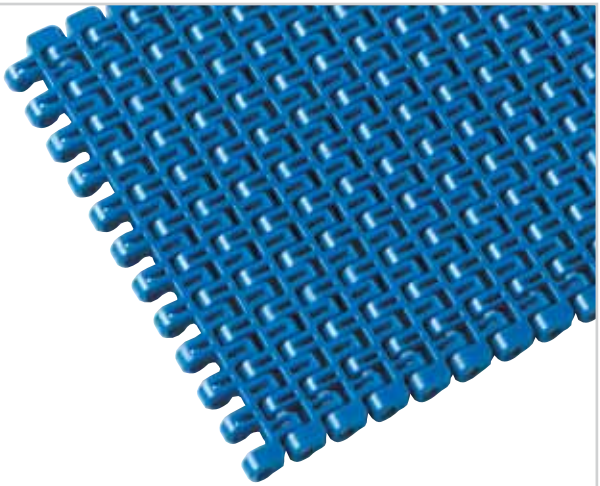
PBT LG

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

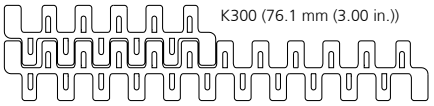
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	685	27.0	1294	50.9	1902	74.9	2510	98.8
152	6.0	762	30.0	1370	53.9	1978	77.9	2586	101.8
228	9.0	837	33.0	1446	56.9	2054	80.9	2662	104.8
304	12.0	914	36.0	1522	59.9	2130	83.9	2738	107.8
381	15.0	990	39.0	1598	62.9	2206	86.9	2814	110.8
456	18.0	1066	42.0	1674	65.9	2282	89.8	2890	113.8
533	21.0	1142	45.0	1750	68.9	2358	92.8	2966	116.8
608	23.9	1218	48.0	1826	71.9	2434	95.8	3042	119.8

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni M-SNB M3 Single Link®



uni M-SNB M3 Single Link® is available in the following standard widths:



uni M-SNB M2 & M3 Single Link® standard materials and colors see page 115.

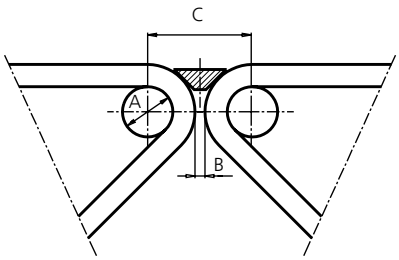
Belt Weights

Belt material	POM-D | POM-LF				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni M-SNB	6.3	1.29	8.6	1.76	4.1	0.84	5.6	1.15	4.4	0.90	5.9	1.21

Permissible Tensile Strength

Belt material	POM-D | POM-LF		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni M-SNB	15000	1028	7500	514	4500	308

Nosebars



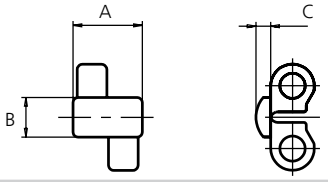
Min. Dimensions

	mm	in.
A min.	20.0	0.79
B min.	4.0	0.16
C min.	41.6	1.64

Standard Selection Accessories

uni M-SNB M3 Rubber Inserts

Dimensional Sketch



uni M-SNB M3 Rubber Inserts

Dimensions

	mm	in.
A	14.0	0.55
B	8.0	0.31
C	3.0	0.12

Standard Material and Color: 01 N

Rubber inserts can be assembled in any belt surface upon customer request.

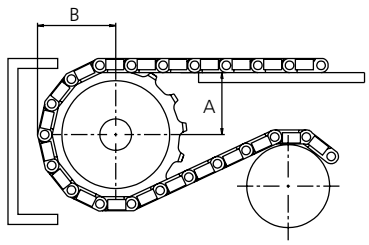
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	41.1	1.62	41.5	1.63	28.0	1.10	ø10/18.0*	0.39/0.71*	223PA6MSNB210211N00
19	77.2	3.04	79.0	3.11	65.0	2.56	19.1/40.0*	0.75/1.57*	223PA6MSNB219211LG00
							sq 25.4	sq 1.00	223PA6MSNB219211N00I100S
							sq 38.1	sq 1.50	223PA6MSNB219211N00I150S
							sq 40.0	sq 1.57	223PA6MSNB219211N00M040S
28	113.4	4.46	116.2	4.57	65.0	2.56	ø19.1/40.0	0.75/1.57*	223PA6MSNB228211LG00
							sq 38.1	sq 1.50	223PA6MSNB228211N00I150S
							sq 40.0	sq 1.57	223PA6MSNB228211LG00M040S
					100.0	3.94	ø40.0/70.0	ø1.57/2.76	223PA6MSNB228211LG01
							sq 60.0	sq 2.36	223PA6MSNB228211LG00M060S
38	153.8	6.06	157.4	6.20	75.0	2.95	19.1/40.0*	0.75/1.57*	223PA6MSNB238211N00
							sq 38.1	sq 1.50	223PA6MSNB238211N00I150S
							sq 40.0	sq 1.57	223PA6MSNB238211N00M040S
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76	223PA6MSNB238211N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	25.2	0.99	15.4	0.61
19	43.5	1.71	34.2	1.35
28	62.0	2.44	52.8	2.08
38	82.4	3.24	73.8	2.89



Width of sprockets: 20.0 mm (0.79 in.)
Tooth width: 7.0 mm (0.28 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM-D | POM-LF		PP	
	N	lbf	N	lbf
uni M-SNB	1000	225	800	180

Pitch 19.05 mm (0.75 in.)

uni Light – unique belt for light duty applications

The uni Light belt is designed for applications with high volume production, accumulation and requirements for a smooth transfer between conveyors.

The uni Light belts have increased performance in the following industries/applications:

- Paper/tissue applications including diverters, accumulation tables and wrapping applications
- Beverage applications including depalletizers, palletizers, accumulation tables and acceleration lines
- Can manufacturing applications including palletizers, mass handling and accumulation tables
- Material handling applications
- Fruit & vegetable applications including inspection tables, elevators and incline conveyors
- Bakery applications including cooling lines, dough handling and tray conveyors

Product features and operational benefits:

- Small pitch for high speed and small transfer applications
- Easy maintenance and less downtime with unique lockpin locking system
- Unique openings for high performance (e.g. 10% opening for cherries with stems)
- Flat surface for high stability (e.g. raw edge can manufacturing)
- High friction Rubber Top for diverters or incline conveyors

Standard Selection

uni Light C

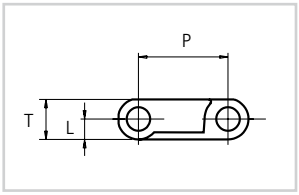
uni Light 10%

uni Light 22%

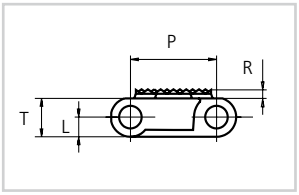
uni Light Rough Rubber Top
Indent is 15.0 mm (0.59 in.)

Note: uni Light Rough Rubber Top is also available without indent.

Dimensional Sketches



uni Light C | uni Light 10%
uni Light 22%



uni Light Rough Rubber Top

Dimensions

	mm	in.
R	2.0	0.08
L	4.3	0.17
P	19.1	0.75
T	8.5	0.33

Straight running

19.1 mm (0.75 in.)

ø5 mm (0.20 in.)

Patented

See page 8

25 mm (1.0 in.)
uni Light Rib:
50 mm (2.0 in.)

See page 121

See page 172

03 K See page 12

Alternatives

PP W **PE** W **PBT-GR** N
PA6.6 N B SS304 **PBT** LG

PBT LG

Accessories

See page 122

See page 123

See page 122

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni Light C	**POM-LF** BR	**PA6.6** D	
	PP W	**PA6.6** N	
	PP G K B	**PA6.6** D	
	PA6 K	**PBT-GR** N	**PP** W G
uni Light 10%	**POM-LF** BR	**PA6.6** D	
uni Light 22%	**POM-LF** BR	**PA6.6** D	
	PP G	**PA6.6** D	
uni Light Rough Rubber Top	**PP** K + 03 K	**PA6.6** D	

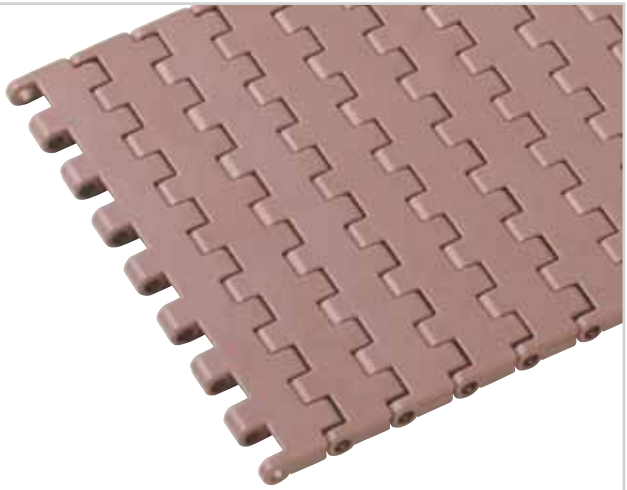
Alternative pin materials and colors: See above

Standard Bricklayed Belt Widths (See below for Single Link® widths)

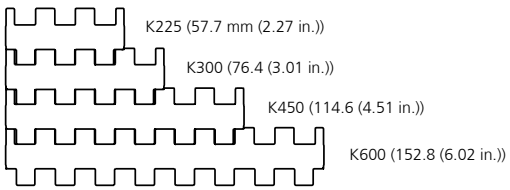
mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	840	33.1	1604	63.2	2369	93.3
153	6.0	917	36.1	1681	66.2	2445	96.3
229	9.0	993	39.1	1757	69.2	2522	99.3
306	12.0	1070	42.1	1834	72.2	2598	102.3
382	15.0	1146	45.1	1910	75.2	2674	105.3
458	18.0	1223	48.1	1987	78.2	2751	108.3
535	21.1	1299	51.1	2063	81.2	2827	111.3
611	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	120.4

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni Light Single Link®



uni Light Single Link® is available in the following standard widths:



uni Light Link® standard materials and colors see page 119.

uni Light Single Link® Belt Widths

Belt type and widths	K225 57.7 mm (2.27 in.)	K300 76.4 mm (3.01 in.)	K450 114.6 mm (4.51 in.)	K600 152.8 mm (6.02 in.)
uni Light C	X	X	X	X
uni Light 10%		X		X
uni Light 22%		X		X
uni Light Rough Rubber Top				X

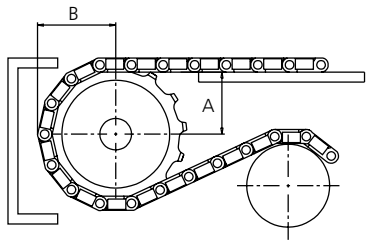
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
7	43.9	1.73	42.6	1.68	30.0	1.18	ø16/20*	0.63/0.79*	283PA6UL07211N00
10	61.7	2.43	61.7	2.43	45.0	1.77	ø16/35*	0.63/1.38*	283PA6UL10211LG00
					49.0	1.93	hex 38.1	hex 1.50	283PA6UL10211N00I150H
17	103.7	4.08	105.0	4.13	70.0	2.76	ø19.1/40.0	0.75/1.57*	283PA6UL17211N00
							sq 40.0	sq 1.57	283PA6UL17211N00M040S
24	146.0	5.75	147.3	5.80	70.0	2.76	19.1/40.0*	0.75/1.57*	283PA6UL25211N00
							sq 38.1	sq 1.50	283PA6UL24211N00I150S
							sq 40.0	sq 1.57	283PA6UL24211N00M040S
					100.0	3.94	ø40/70*	ø1.57/2.76	283PA6UL24211N01
25	152.0	5.98	153.3	6.04	70.0	2.76	19.1/40.0*	0.75/1.57*	283PA6UL24211N00
							sq 38.1	sq 1.50	283PA6UL25211N00I150S
							sq 40.0	sq 1.57	283PA6UL25211N00M040S
					100.0	3.94	ø40/70*	ø1.57/2.76	283PA6UL25211N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
7	26.3	1.04	15.4	0.61
10	35.2	1.39	25.0	0.98
17	56.2	2.21	46.6	1.83
24	77.3	3.04	67.0	2.64
25	80.3	3.16	71.0	2.80



Width of sprockets: 25.0 mm (0.98 in.)
Tooth width: 4.8 mm (0.19 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni Light	1250	281	700	157

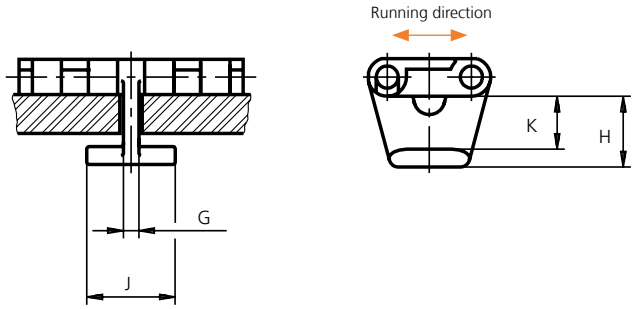
Belt Weights

Belt material	POM-LF				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni Light C	6.8	1.39	14.2	2.91	4.8	0.98	12.2	2.50	4.9	1.00	12.4	2.54
uni Light 10%	6.2	1.27	13.7	2.81	4.3	0.88	11.9	2.44	4.6	0.94	12.1	2.48
uni Light 22%	5.5	1.13	13.0	2.66	3.9	0.80	11.5	2.36	4.1	0.84	11.6	2.38
uni Light Rough Rub. Top	-	-	-	-	5.5	1.13	13.0	2.66	-	-	-	-

Permissible Tensile Strength

Belt material	POM-LF		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni Light C	10250	702	5125	351	3075	211
uni Light Rough Rub. Top	10250	1028	5125	351	-	-

Accessories | Tab



uni Light Tab

Dimensions

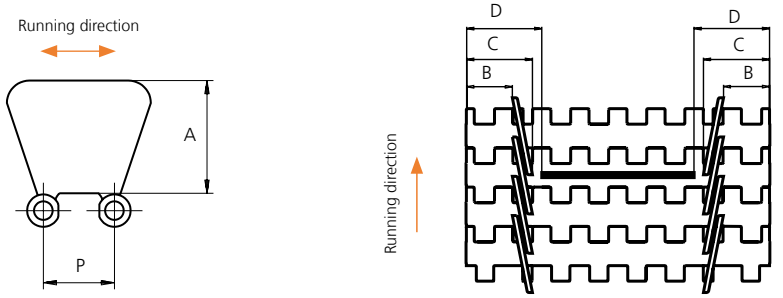
	mm	in.
G	3.5	0.14
H	15.9	0.63
J	20.0	0.79
K	11.7	0.46

Please note that the tabs are not always placed in the middle of the belt.

Standard Material and Color: **POM-D** **W**

Note: When using tabs, please verify sufficient clearance to the shaft.
Max. shaft diameter = Sprocket pitch diameter - 44.5 mm (1.75 in.). When using square shafts please verify that the diagonal does exceed above max. diameter.
Example: Sprocket z = 17: Max. shaft diameter 103.7 - 44.5 = ø59 mm (4.08 - 1.75 = ø2.3 in.).

Accessories | Side Guard



uni Light Side Guard

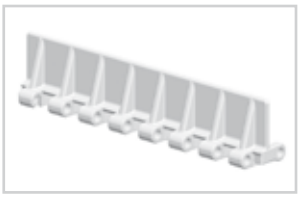
Dimensions

	mm	in.
A	31.4	1.24
B*	15.0	0.59
C*	24.0	0.94
D*	25.0	0.98
P	19.05	0.75

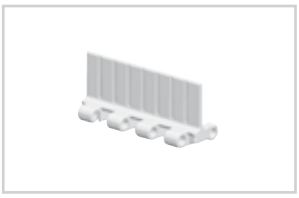
** Increment: 9.5 mm (0.37 in.).*

Standard Material and Color: **PP-I** **W** **G**

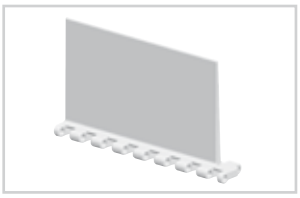
Accessories | Product Support



uni Light Product Support
with Ribs



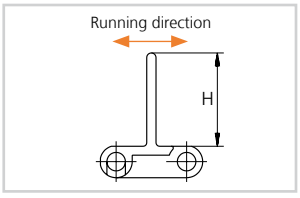
uni Light Product Support
Flat (no Ribs)



uni Light Product Support
with Indent

*Product Support **L-I**15 (**L**eft **I**ndent)*
*Product Support **R-I**15 (**R**ight **I**ndent)*

Dimensional Sketch



uni Light Product Support

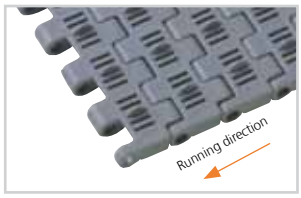
Standard Materials, Colors and Dimensions

Style	H		Width			Molded indent			Standard materials and colors		
	mm	in.	Type	mm	in.	Type	mm	in.	PP-I	PA6	Rubber 04
Flat (no Ribs)	25.4	1.00	K300	76.4	3.01	no*	-	-	W		
	25.4	1.00	K600	152.8	6.02	no*	-	-	W G	K	K
	25.4	1.00	K600	152.8	6.02	left	15.0	0.59	W G	K	
	25.4	1.00	K600	152.8	6.02	right	15.0	0.59	W G	K	
with Ribs	25.4	1.00	K600	152.8	6.02	no*	-	-	W		
with Ribs	50.8	2.00	K600	152.8	6.02	no*	-	-	W G	K	
	50.8	2.00	K600	152.8	6.02	left	15.0	0.59	G	K	
	50.8	2.00	K600	152.8	6.02	right	15.0	0.59	G	K	
with Ribs	76.2	3.00	K600	152.8	6.02	no*	-	-	W G		K
	76.2	3.00	K600	152.8	6.02	left	15.0	0.59	W G		
	76.2	3.00	K600	152.8	6.02	right	15.0	0.59	W G		

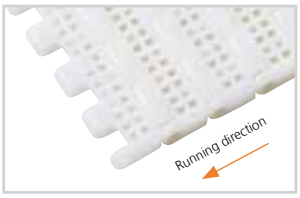
** Minimum bricklayed indent for uni Light product support is 38.1 mm (1.50 in.). Increment: 19.1 mm (0.75 in.).*

Made-To-Order Selection

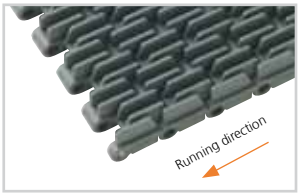
uni Light CR



uni Light 10% SR



uni Light 18%



uni Light Rib

uni Light Vacuum

uni Light Flat Rubber Top

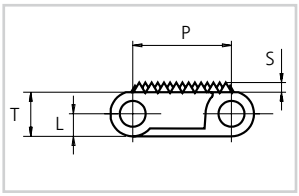
uni Light Rough Rubber Top

Note: uni Light Flat Rubber Top and uni Light Rough Rubber Top are only available in PP.

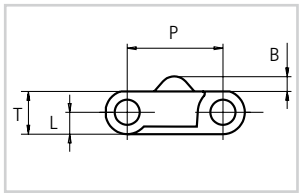
Note: uni Light Flat Rubber Top and uni Light Rough Rubber Top is both available with and without indents.

Indent is 15.0 mm (0.59 in.)

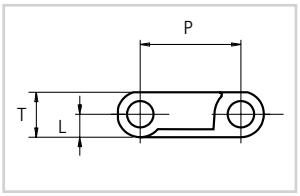
Dimensional Sketches



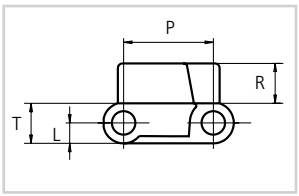
uni Light CR



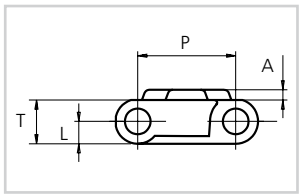
uni Light SR



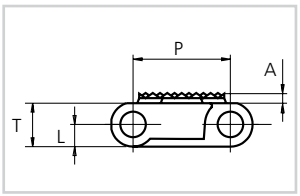
uni Light 18% | Vacuum



uni Light Rib



uni Light Flat Rubber Top



uni Light Rough Rubber Top

Dimensions for uni Light Vacuum

mm	in.	K600 No. of holes	Total open area %
3.2	0.13	5	7.64
4.0	0.16	5	8.40
4.0	0.16	7	9.24
4.0	0.16	8	9.66
5.2	0.20	5	9.87
5.6	0.22	7	12.10
5.6	0.22	8	12.93

Straight running

19.1 mm (0.75 in.)

ø5 mm (0.20 in.)

Patented

See page 8

25 mm (1.0 in.)
uni Light Rib: 50 mm (2.0 in.)

See page 121

See page 172

PP W G B

03 K See page 12

PP W **PA6.6** N B SS304
PE W **GR** N

PA6.6 N D

PP W

Accessories

See page 122

See page 123

See page 122

See page 126

Dimensions

	mm	in.
A	2.0	0.08
B	3.0	0.12
L	4.3	0.17
P	19.1	0.75
R	7.3	0.29
S	1.5	0.06
T	8.5	0.33

Made-To-Order Materials

POM-D, POM-LF, PP, PE and PA6

Made-To-Order Bricklayed Belt Widths

mm	in.	mm	in.	mm	in.	mm	in.
76	3.0	840	33.1	1604	63.1	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	120.4

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

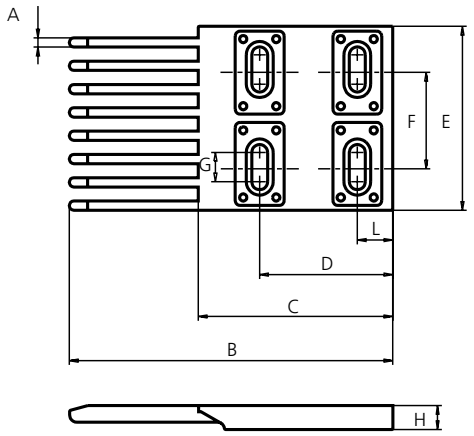
Belt Weights

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	
uni Light C	6.8	1.39	14.2	2.91	4.8	0.98	12.2	2.50	4.9	1.00	12.4	2.54
uni Light 10%	6.2	1.27	13.7	2.81	4.3	0.88	11.9	2.44	4.6	0.94	12.1	2.48
uni Light 18%	5.5	1.13	13.0	2.66	3.9	0.80	11.5	2.36	4.1	0.84	11.6	2.38
uni Light Rib	9.2	1.88	16.8	3.44	6.3	1.29	13.9	2.85	6.6	1.35	14.1	2.89
uni Light Vacuum	6.5	1.33	14.0	2.87	4.4	0.90	12.0	2.46	4.7	0.96	12.2	2.50
uni Light Flat Rubber Top	-	-	-	-	5.5	1.13	13.0	2.66	-	-	-	-

Permissible Tensile Strength

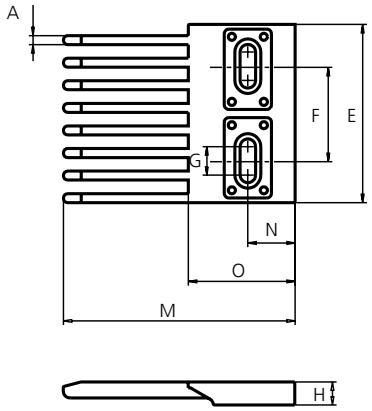
Belt material	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni Light	10250	702	5125	351	3075	211
uni Light Rough Rubber Top	-	-	5125	351	-	-

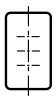
Made-To-Order Accessories | Finger Plates



Snap-On
Cover Caps

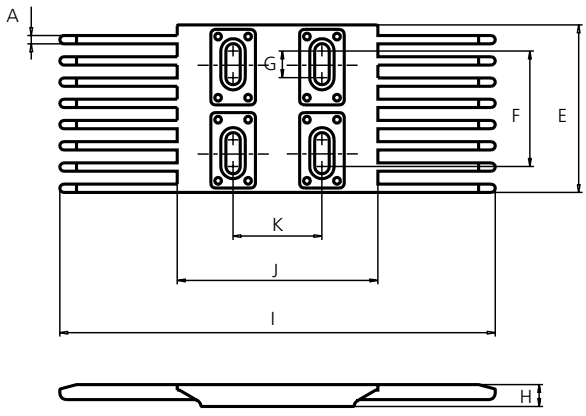
uni Light Finger Plate Type 1A K300





Snap-On
Cover Caps

uni Light Finger Plate Type 2 K300



Snap-On
Cover Caps

uni Light Finger Plate Type 3 K300

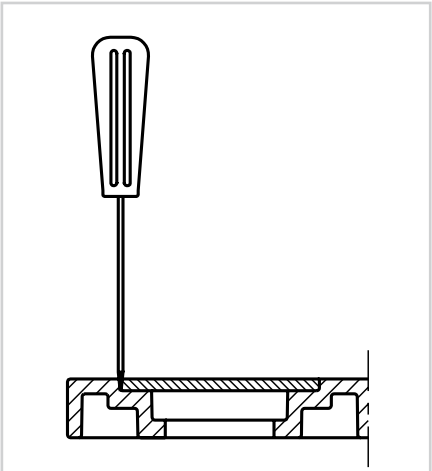
Made-To-Order Materials

POM-LF, POM-DI and POM-EC

Dimensions

	mm	in.
A	3.8	0.15
B	132.9	5.23
C	80.0	3.15
D	14.9	0.59
E	75.4	2.97
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

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 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 plates. In order to adjust to belt width variations caused by temperature fluctuations, a slider facilitates the sideways movement of the finger plates (finger plate type 2).



Pitch 25.4 mm (1.00 in.)

uni CNB – cleanable belt for light duty applications

The uni CNB belt is a cleanable belt for conveyance of light duty products in various food applications. The belt is available with different openings to optimize drainage and airflow and includes accessories like product supports and side guards. The unique hinge and sprocket designs increase the cleanability of the belt.

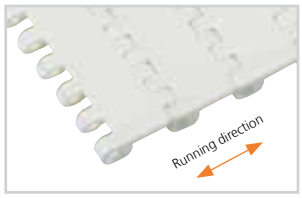
The uni CNB belt is the preferred belt in the following industries/ applications:

- Meat & poultry applications including general conveyance and breading lines
- Fruit & vegetable applications including elevators, steam peeler and inspection tables
- Seafood applications including elevators, inspection tables, grading lines, trim lines, glazing lines and cooking lines
- Bakery applications including raw dough handling, cooling lines, icing lines, packing lines and metal detectors

Product features and operational benefits:

- Easy to clean
- Unique lockpin system providing faster and simpler maintenance
- Unique sprocket engagement offering precise indexing and easy cleaning
- Different openings to optimize performance in cooling and draining applications

Standard Selection

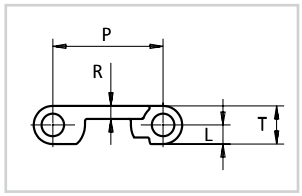


uni CNB C

uni CNB 18%

uni CNB 22%

Dimensional Sketch



uni CNB C | uni CNB 18%
uni CNB 22%

Dimensions

	mm	in.
L	4.4	0.17
P	25.4	1.00
R	3.0	0.12
T	8.8	0.35

Straight running

25.4 mm (1.00 in.)

ø5 mm (0.20 in.)

Patent — Patented

Materials — See page 8

40 mm (1.6 in.)
Side Guards 75 mm (2.95 in.)

See page 130

See page 172

Alternative

PP W **PE** W
PA6.6 B **SS304** **PBT** LG

PBT LG

Accessories

See page 131

See page 131

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni CNB C	**POM-D** W	**PA6.6** N
	PP W	**PA6.6** N
	PP B	**PA6.6** N
	PE N	**PA6.6** N
uni CNB 18%	**PP** W	**PA6.6** N
uni CNB 22%	**PP** W	**PA6.6** N
	POM-D W	**PA6.6** N
	PE N	**PA6.6** N

Alternative pin materials and colors: See above

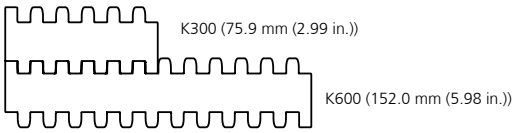
Standard Bricklayed Belt Widths (See below for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
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

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni CNB Single Link®

uni CNB Single Link® is available in the following standard widths:



uni CNB Single Link® standard materials and colors see page 128.

Belt Weights

Belt material	POM		PP		PE	
Pin material	plastic		plastic		plastic	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
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

Permissible Tensile Strength

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni CNB C | 18% | 22%	13500	1925	15700	1076	7500	514	7500	514	6200	425	5800	397

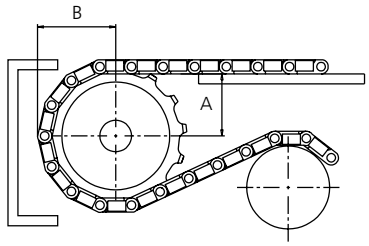
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
10	82.2	3.24	80.6	3.17	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	193PA6CNB10221LG00
							sq 38.1	sq 1.50	193PA6CNB10221N00I150S
							sq 40.0	sq 1.57	193PA6CNB10221N00M040S
12	98.1	3.86	96.8	3.81	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	193PA6CNB12221N00
							sq 38.1	sq 1.50	193PA6CNB12221LG00I150S
							sq 40.0	sq 1.57	193PA6CNB12221N00M040S
15	122.2	4.81	121.5	4.78	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	193PA6CNB15221LG00
							sq 38.1	sq 1.50	193PA6CNB15221N00I150S
							sq 40.0	sq 1.57	193PA6CNB15221N00M040S
18	146.3	5.76	146.1	4.72	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	193PA6CNB18221LG00
							sq 38.1	sq 1.50	193PA6CNB18221N00I150S
							sq 40.0	sq 1.57	193PA6CNB18221N00M040S
19	154.3	6.07	154.2	6.07	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	193PA6CNB19221LG00
							sq 38.1	sq 1.50	193PA6CNB19221N00I150S
							sq 40.0	sq 1.57	193PA6CNB19221N00M040S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	45.5	1.79	34.7	1.37
12	53.5	2.11	43.0	1.69
15	65.5	2.58	55.3	2.18
18	77.5	3.05	67.6	2.66
19	81.6	3.21	71.7	2.82



Width of sprockets: 25.0 mm (0.98 in.)
Tooth width: 12.0 mm (0.47 in.)
Standard material: PA6

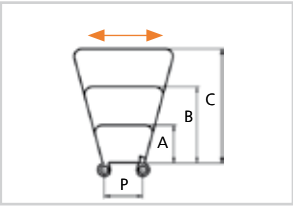
Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni CNB	600	135	500	112

Accessories | Side Guard

Dimensional Sketch



uni CNB Side Guard

Dimensions

	mm	in.
A	25.4	1.00
B	50.8	2.00
C	76.2	3.00
P	25.4	1.00

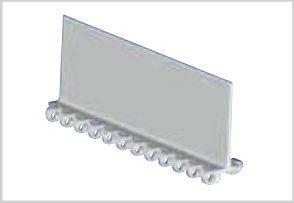
Minimum indent to outside of side guards: 14.0 mm (0.55 in.).
Increment: 6.4 mm (0.25 in.).

Standard Material and Color:

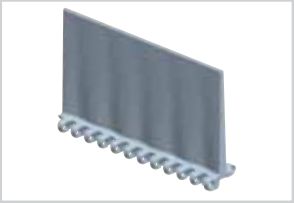
PP-I **W**

Accessories | Product Support

uni CNB Micro
Product Support 22%



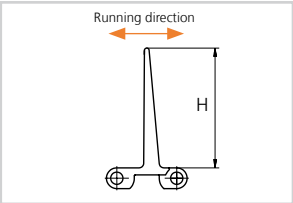
uni CNB
Product Support, Flat



uni CNB
Product Support, Flat

Product Support, Flat: Flat on one side and with waves on the other side.

Dimensional Sketch



uni CNB Product Support

Standard Materials, Colors and Dimensions

Style	H		Width			Molded Indent	Standard materials & colors		
	mm	in.	Type	mm	in.		POM-D	PE	PP-I
22% micro	5.0	0.20	K300	75.9	2.99	LI/RI*		N	W
	5.0	0.20	K600	152.0	5.98	LI/RI*		N	W
Flat	25.4	1.00	K600	152.0	5.98	no**	W	N	B W
Flat	50.8	2.00	K600	152.0	5.98	no**	W	N	B W
Flat	76.2	3.00	K600	152.0	5.98	no**		N	B W

** uni CNB Micro Product Support 22%: Standard indent in both sides is 6.4 mm (0.25 in.)*
*** Minimum bricklayed Indent for uni CNB product support is 38.1 mm (1.50 in.): 14.0 mm (0.55 in.). Increment: 12.7 mm (0.50 in.).*

Pitch 25.4 mm (1.00 in.)

uni Flex SNB – strong and tight radius sideflexing belt

uni Flex SNB 1 in. pitch is created to optimize throughput in high volume operations with space limitations. The belt has unique strength and sideflexing characteristics and is used in many different applications.

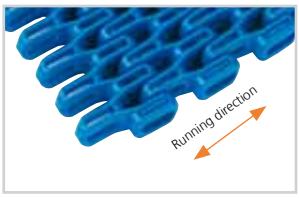
The uni Flex SNB belt has increased performance in the following industries/applications:

- Meat & poultry applications including tray pack conveyors, box/tote handling, freezers infeed/ outfeed, low tension spirals and other sideflexing applications
- Fruit & vegetable applications including filling lines, canning lines and incline/decline applications
- Bakery applications including cooling lines, pan handling, proofers and oven infeed and takeaway
- Beverage applications including case conveyors, shrink tunnels and incline/decline applications
- Can manufacturing applications including mass handling, transfer conveyors and palletizers infeed conveyors

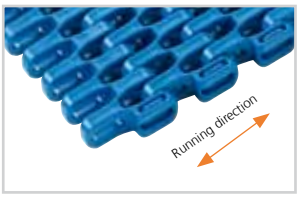
Product features and operational benefits:

- 180 degree high speed side-flexing applications
- High temperature and wear resistance
- Tight radius applications with reduced space requirements
- Unique locking system (no pin walking or pins coming out)
- Unique radius top surface for minimum product contact and less friction
- Reinforced stainless steel links for higher strength, speed or load

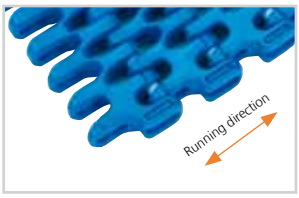
Standard Selection



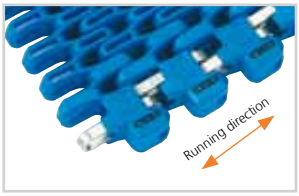
uni Flex SNB L
Surface opening 55%



uni Flex SNB C
Surface opening 47%

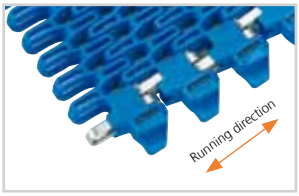


uni Flex SNB CR
Surface opening 47%



uni Flex SNB W
Surface opening 55%

uni Flex SNB WT
Surface opening 55%



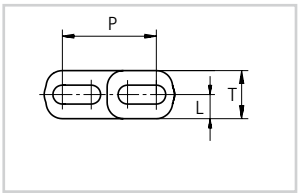
uni Flex SNB WO
Surface opening 55%

uni Flex SNB CR Rubber Top
Surface opening 47%

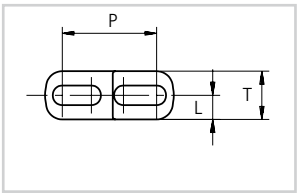
uni Flex SNB CI Rubber Top
Surface opening 47%

uni Flex SNB C Rubber Top
Surface opening 47%

Dimensional Sketches

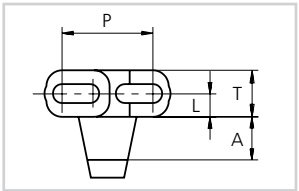


uni Flex SNB L
uni Flex SNB W
uni Flex SNB WO

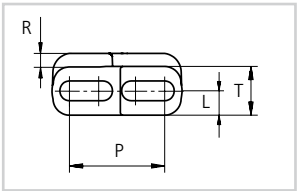


uni Flex SNB C
uni Flex SNB CR

Indent
uni Flex SNB CR Rubber Top is 26.5 mm (1.04 in.).
uni Flex SNB CI Rubber Top is 7.0 mm (0.28 in.).
uni Flex SNB C Rubber Top is available without indent.



uni Flex SNB WT



uni Flex SNB Rubber Top

Sideflexing

25.4 mm (1.00 in.)

ø5 mm (0.20 in.)

Patented

See page 8

25 mm (1.0 in.)

See page 140

See page 172

03 K **03 N** See page 12

Alternatives

PP W **SS304** **SS316**

Accessories

See page 141

See page 141

Dimensions

	mm	in.
A	12.0	0.47
L	6.5	0.26
P	25.4	1.00
R	3.0	0.12
T	13.0	0.51

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

uni Flex SNB C: Standard radius. Min. inside radius 2.3 x belt width. 47% open hygienic solid grid surface.

uni Flex SNB CR: Tight radius. Min. inside radius 1.6 x belt width. 47% open hygienic solid grid surface.

uni Flex SNB W: Standard radius (2.3 x W) fitted with reinforcement links and steel pins. Integral molded edge wearpart.

uni Flex SNB WT: Standard radius (2.3 x W) fitted with cover links and PBT pins or with reinforcement links and steel pins. Integral molded edge wearpart. Integral underside tab (S-Tab).

uni Flex SNB WO: Standard radius (2.3 x W) fitted with reinforcement links and steel pins. Integral outer edge tab system. Enables transportation of products wider than the belt.

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni Flex SNB L	POM-D W	PBT LG
	POM-D B	PBT LG
	PP W	PBT LG
	PP B	PBT LG
	PA6.6 B	PBT LG
	PA6.6 W	PBT LG
uni Flex SNB C | CR	POM-D W	PBT LG
	POM-D B	PBT LG
	PP W	PBT LG
	PP B	PBT LG
	PA6.6 B	PBT LG
	PA6.6 W	PBT LG
uni Flex SNB W	PA6.6 W	SS304
	PA6.6 B	SS304
uni Flex SNB WT	PA6.6 B	SS304 or PBT LG
	PA6.6 W	SS304 or PBT LG
uni Flex SNB WO	PA6.6 B	SS304
	PA6.6 W	SS304
uni Flex SNB Rubber Top (C | CI | CR)	PP B + 03 K	PBT LG
	PP W + 03 N	PBT LG

Alternative pin materials and colours: See page 133.

For all uni Flex SNB L types: Lockingplate | Wearparts | O-Tab

Standard materials and colors

Lockingplates **PP** W B

Wearparts and O-Tab **PA6.6** W B

For high speed and/or abrasive applications:

Wearpart and O-Tab **POM-DK** N

For uni Flex SNB W | uni Flex SNB WT | uni Flex SNB WO
Outer modules are always in PA6.6. On belt widths wider than 235 mm (9 in.)
Belt may be combined with any of above L or CM links in the middle.

Reinforcement links: **SS304**

uni Flex SNB Cover Link

Standard materials and colors

PA6.6 W B

Standard Modular Widths for uni Flex SNB L (W_L)

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

Non standard cut widths are possible in multiples of 12.7 mm (0.50 in.). To find the belt widths for other uni Flex SNB tracking systems and belt types, please use formulas below. On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C (73° F).
** Note: These belt widths are only available for uni Flex SNB L and uni Flex SNB C.*
*** uni Flex SNB W, uni Flex SNB WO, uni FLex SNB WT are only standard in PA6.6 material.*
uni Flex SNB C, uni FLex SNB CR, uni FLex SNB L are closed with lopcking plates in both sides: W = WL.

uni Flex SNB C | uni Flex SNB CR: **$W = W_L$**

uni Flex SNB L or uni Flex SNB C | uni Flex SNB C with wearpart both sides: **$W = W_L$ + 2 x 3 mm (2 x 0.12 in.)**

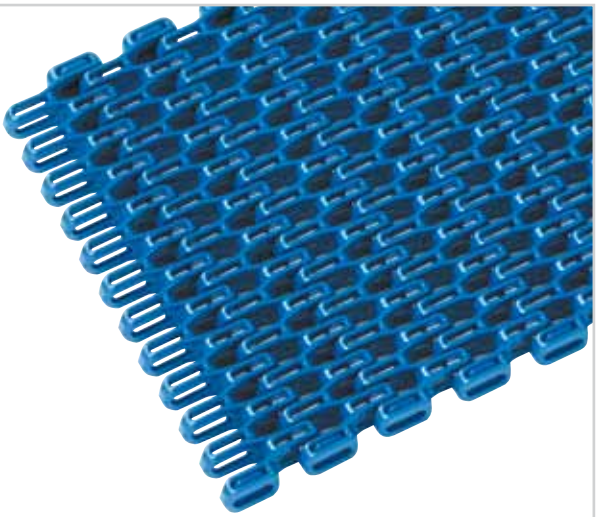
For wearpart /O-Tab one side: **1 x 3 mm (1 x 0.12 in.)**

uni Flex SNB L uni Flex SNB C | uni Flex SNB CR with O-Tab both sides: **$W = W_L$ + 2 x 3 mm (2 x 0.12 in.)**

For wearpart /O-Tab one side: **1 x 3 mm (1 x 0.12 in.)**

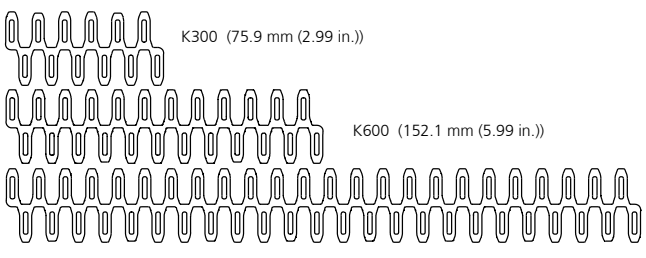
uni Flex SNB W | uni Flex SNB WO or uni Flex SNB WT both sides: **$W = W_L$ + 2 x 3 mm (2 x 0.12 in.)**

uni Flex SNB Single Link®

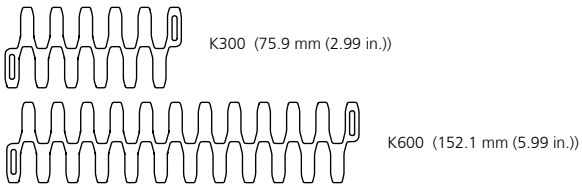


uni Flex SNB Single Link® standard materials and colors see page 134.

uni Flex SNB L Single Link® is available in the following standard widths:

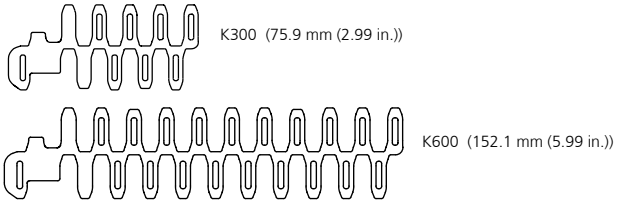


uni Flex SNB C Single Link® is available in the following standard widths:

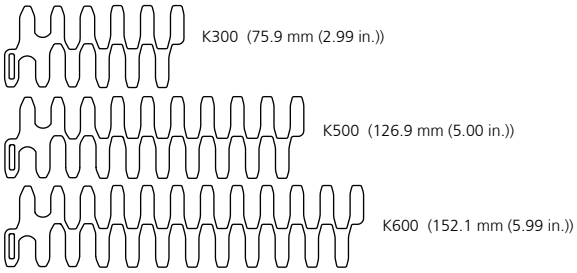


uni Flex SNB Link®

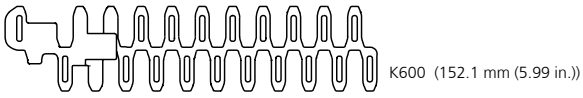
uni Flex SNB W Single Link® is available in the following standard widths:



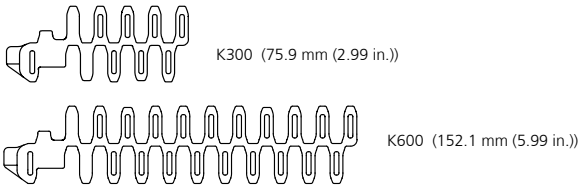
uni Flex SNB CR Single Link® is available in the following standard widths:



uni Flex SNB WT Single Link® is available in the following standard widths:



uni Flex SNB WO Single Link® is available in the following standard widths:



uni Flex SNB Single Link® Widths

Belt type and widths	K300 75.9 mm (2.99 in.)	K500 126.9 mm (5.00 in.)	K600 152.1 mm (5.99 in.)	K1200 304.5 mm 11.99 in.)
uni Flex SNB L	X		X	X
uni Flex SNB C	X		X	
uni Flex SNB C Rubber Top	X		X	
uni Flex SNB CR*	X	X	X	
uni Flex SNB W**	X		X	
uni Flex SNB WT***			X	
uni Flex SNB WO****	X		X	

** Not available as Single Link.*
*** Has integrated wearpart.*
**** Has integrated underside tab (S-Tab).*
***** Has integrated outer edge tab system (O-Tab).*

uni Flex SNB Program

Belt type	Material	Hinge design	Flex ratio/min inside radius
uni Flex SNB L	all plastic	open hinge	2.3
uni Flex SNB C	all plastic	closed hinge	See below
uni Flex SNB CR	all plastic	closed hinge	1.6**
uni Flex SNB W	plastic and steel	open hinge	2.3
uni Flex SNB WT	all plastic or plastic and steel	open hinge	2.3
uni Flex SNB WO	plastic and steel	open hinge	2.3

Please, refer to this diagram for the material combinations, surface openings and turning radii of the five different uni Flex SNB types.
Minimum straight section from idler end and first curve 1.5 x belt width (W).
Minimum straight section between left and right curves: 2.0 x belt width (W).
Inner curve radius = Flex ratio x belt width.
Minimum straight section from last curve to drive section 2.0 x belt width (W).
** K300 Single Link® Flex ratio = 1.9 and K600 Single Link® Flex ratio = 1.8.*
*** Widths below 9 in. (228 mm): 1.5*

Max. Permissible Load in Curve

	Belt material	POM/PA6.6		PP	
	Pin material	N	lbf	N	lbf
uni Flex SNB L | uni Flex SNB C | uni Flex SNB CR	**SS**	600	135	600	135
uni Flex SNB L | uni Flex SNB C | uni Flex SNB CR	**PBT**	1000	225	600	135

Max. Permissible Load in Curve

	Belt material	POM/PA6.6		PP	
	Pin material	N	lbf	N	lbf
uni Flex SNB W | uni Flex SNB WO | uni Flex SNB WT	**SS**	600	135	600	135
uni Flex SNB W | uni Flex SNB WO | uni Flex SNB WT	**PBT****	1000	225	600	135
uni Flex SNB W | uni Flex SNB WO | uni Flex SNB WT	**SS + RL***	3300	742	-	-

** RL = Reinforcement link*
*** Only standard in uni FLex SNB WT.*

Max. Permissible Load in Straight Sections

	Belt material	POM/PA6.6		PP	
	Pin material	N/m	lbf/ft	N/m	lbf/ft
uni Flex SNB L | uni Flex SNB C | uni Flex SNB CR uni Flex SNB W | uni Flex SNB WO | uni Flex SNB WT	**PBT or SS**	30000	2055	15000	1028

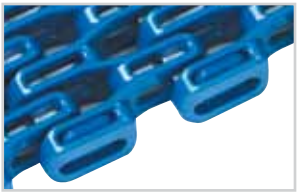
Load Capacity per Reinforcement Link

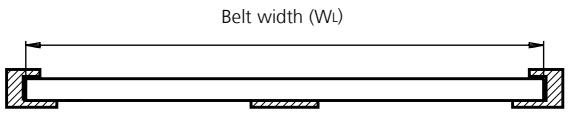
	N/pcs	lbf/pcs
uni Flex SNB	3300	742

The use of belts with the SS reinforcement /Pitch control links in blanchers, cookers and other high temperature applications will reduce belt elongation due to temperature by more than 90%. This will simplify the belt take-up system and reduce maintenance.

Note: Reinforcement links require the use of SS pins.

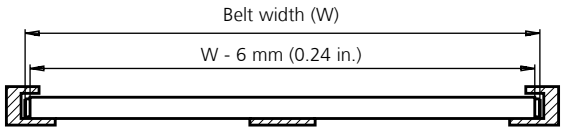
Belt Tracking og Control Systems





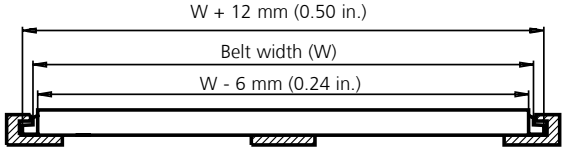
Basic belt types can be combined with the belt tracking and control systems below to enhance performance. Basic belt types can be combined with the belt tracking and control systems below to enhance performance.

uni Flex SNB L
Standard



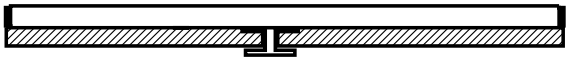
Wearpart system made of heat and wear resistant nylon to reduce the friction between belt edge and wearstrip. Only this part needs to be replaced when it has been worn out, not the entire belt.

Wearpart



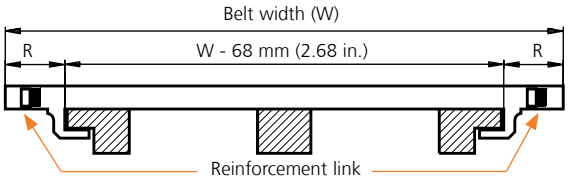
Outer edge tab system made of heat and wear resistant nylon to reduce the friction between belt edge and wearstrip. Using a slotted wear-strip, the O-Tab will track the belt and allow the conveyed products to be wider than the belt.
Height of O-Tab: 6.4 mm (0.25 in.)
Height of slot: 8.0 mm (0.32 in.)

O-Tab



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

I-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).

R = 34.0 mm (1.34 in.).

S-Tab

Note: When using S Tabs, please verify sufficient clearance to the shaft. Max. shaft diameter = Sprocket pitch diameter - 50.8 mm (2.00 in.).
When using square shafts, please verify that the diagonal does not exceed max. diameter.
Example: Sprocket z = 10: Max. shaft diameter 82.2 - 50.8 = ø31 mm (3.24 - 2.00 = ø1.2 in.).

Belt type	Belt tracking and control combination			
	Wearpart	O-Tab	S-Tab	I-Tab
uni Flex SNB L	+	+	-	+
uni Flex SNB C | uni Flex SNB CR	+	+	-	-
uni Flex SNB W	✓	-	-	+
uni Flex SNB WT	-	-	✓	+
uni Flex SNB WO	-	✓	-	+

✓ *Standard* + *Optional* - *Unavailable*

Belt Weights for uni Flex SNB L

Belt material	POM		PP		PA6.6	
Pin material	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
PBT	6.9	1.41	4.8	0.98	5.8	1.19
SS	12.1	2.48	10.0	2.05	11.0	2.25

Belt Weights for uni Flex SNB C | uni Flex SNB CR

Belt material	POM		PP		PA6.6	
Pin material	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
PA6.6	7.7	1.58	5.4	0.98	6.4	1.31
SS	12.9	2.64	10.2	2.09	11.6	2.38

Belt Weights for uni Flex SNB W

Belt material	POM		PP		PA6.6	
Pin material	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
PBT	7.3	1.50	5.1	1.04	6.0	1.23
SS	12.5	2.56	10.3	2.11	11.2	2.29

Belt Weights for uni Flex SNB WT

Belt material	POM		PP		PA6.6	
Pin material	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
PBT	7.6	1.56	5.3	1.09	6.3	1.29
SS	12.8	2.62	10.5	2.15	11.5	2.36

Belt Weights for uni Flex SNB WO

Belt material	POM		PP		PA6.6	
Pin material	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
PBT	7.5	1.54	5.3	1.09	6.2	1.27
SS	12.7	2.60	10.5	2.15	11.4	2.34

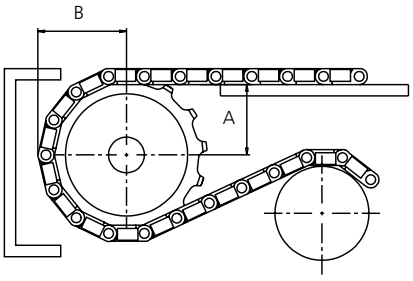
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
9	74.3	2.93	73.8	2.91	56.8	2.24	ø18.0/30.0*	ø0.71/1.18*	213PA6FSNB09211LG00
							sq 25.4	sq 1.00	213PA6FSNB09211N001100S
							sq 30.0	sq 1.18	213PA6FSNB09211N00M030S
10	82.2	3.24	82.2	3.24	65.2	2.57	ø18.0/40.0*	ø0.71/1.57*	213PA6FSNB10211N00
							sq 25.4	sq 1.00	213PA6FSNB10211N00I100S
							sq 30.0	sq 1.18	213PA6FSNB10211N00M030S
12	98.2	3.87	98.8	3.89	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	213PA6FSNB12211N00
							sq 38.1	sq 1.50	213PA6FSNB12211N00I150S
							sq 40.0	sq 1.57	213PA6FSNB12211N00M040S
15	122.2	4.81	123.5	4.86	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	213PA6FSNB15211N00
							sq 38.1	sq 1.50	213PA6FSNB15211N00I150S
							sq 40.0	sq 1.57	213PA6FSNB15211N00M040S
18	146.3	5.76	146.1	5.75	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	213PA6FSNB18211N00
							sq 38.1	sq 1.50	213PA6FSNB18211N00I150S
							sq 40.0	sq 1.57	213PA6FSNB18211N00M040S
19	154.3	6.07	156.2	6.15	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	213PA6FSNB19211N00
							sq 38.1	sq 1.50	213PA6FSNB19211N00I150S
							sq 40.0	sq 1.57	213PA6FSNB19211N00M040S

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
9	43.5	1.71	28.4	1.12
10	47.5	1.87	32.6	1.28
12	55.5	2.19	40.9	1.61
15	67.5	2.66	53.2	2.09
18	79.6	3.13	65.5	2.58
19	83.6	3.29	69.6	2.74



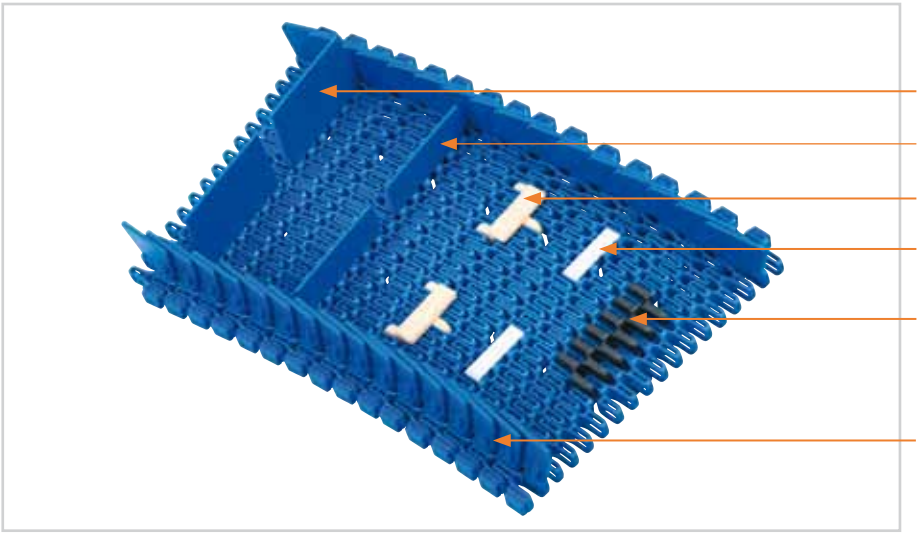
Width of sprockets: 25.0 mm (0.98 in.)
Tooth width: 6.4 mm (0.25 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM or PA6.6		PP	
	N	lbf	N	lbf
uni Flex SNB	1000	225	850	191

Accessories



Standard Materials and Colors

Style	Height		Width		Standard materials & colors		
	mm	in.	mm	in.	PA6.6	PP-I	PP
Side Guard	30.0	1.18	-	-		B W	
Product Support	25.4	1.00	75.9	2.99	B W		B W
	50.8	2.00	75.9	2.99	B W		B W

Belt Top Accessories

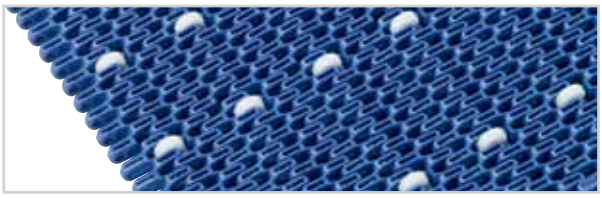
Belt type	Rubber Top	Side Guard	Product Support
uni Flex SNB L	+	+	+
uni Flex SNB C	+1/	-	-
uni Flex SNB CR	+2/	-	-
uni Flex SNB W	+3/	+	+
uni Flex SNB WT	+3/	+	+
uni Flex SNB WO	+3/	+	+

+ = *Optional* **-** = *Unavailable*

1/ Minimum indent from the side of the belt is 6.5 mm (0.26 in.).
2/ Minimum indent from the side of the belt is 26.5 mm (1.04 in.).
3/ Minimum indent from the side of the belt is 75.9 mm (2.99 in.).

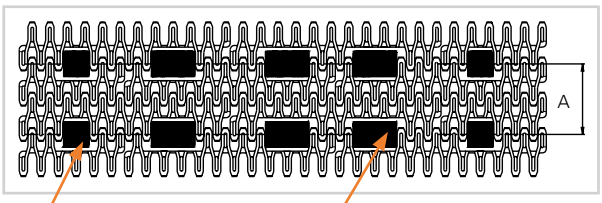
For buildings patterns, please contact uni-chains.

Made-To-Order Selection



uni Flex SNB with Rollers
ø17 x 5.5 mm (ø0.67 x 0.22 in.)

Dimensional Sketch



Rollers are available in widths: 5.5, 17 and 30 mm (0.22, 0.67 and 1.18 in.)

Roller
ø17 x 17 mm (ø0.67 x 0.67 in.)

Roller
ø17 x 30 mm (ø0.67 x 1.18 in.)

Dimensions

	mm	in.
A min.	50.8	2.00

Sideflexing

12.7 mm (0.50 in.)

ø5 mm (0.20 in.)

Patented

See page 8

50 mm (2.0 in.)

See page 140

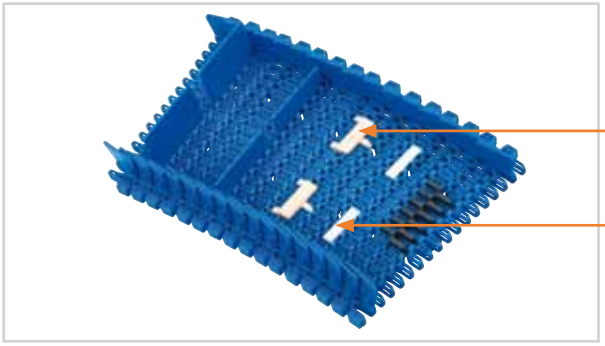
See page 172

PBT LG B PE W
SS304 SS316

Made-To-Order Materials

POM-D, PP, PA6.6 and Roller Material POM-D

Made-To-Order Accessories



Dimensions

Style	H		Width		Length	
	mm	in.	mm	in.	mm	in.
Rubber Support	4.0	0.16	43.0	1.69	14.0	0.55
Product Support low	4.0	0.16	42.0	1.65	10.5	0.41

Made-To-Order Materials

Roller: POM-D and Rubber 01N

Pitch 38.1 mm (1.50 in.)

uni Light EP – light duty application belt

The uni Light EP 1.5 in. pitch belt is designed for light duty applications such as cooking, blanching and pasteurizing in the food industry. The different openings allow high performance with various food products.

The uni Light EP belt is commonly used in the following industries/ applications:

- Fruit & vegetable applications including elevators, blanchers, cooking lines and pasteurizers
- Pasta applications including blanchers, pasteurizers and cooling lines
- Agriculture (corn & rice) applications including elevators, blanchers and cooking lines
- Beverage applications including accumulation tables, pasteurizers and palletizers

Product features and operational benefits:

- Various openings including fine-mesh for water drainage and filtering
- Steel reinforcement feature eliminating belt elongation in high temperature applications
- Reinforced product supports for high load elevators and incline conveyors

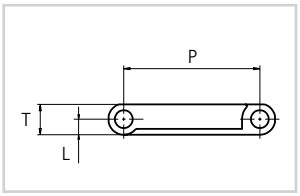
Standard Selection

uni Light EP
22% fine-meshed

uni Light EP
22% fine-meshed with reinforcement links

Reinforcement Link: See page 145 for further information.

Dimensional Sketch



uni Light EP

Dimensions

	mm	in.
L	4.3	0.17
P	38.1	1.50
T	8.5	0.33

Straight running

38.1 mm (1.50 in.)

ø5 mm (0.20 in.)

Patented

See page 8

75 mm (3.0 in.)

See page 146

See page 172

Alternatives

PE W
SS304

PP W

Accessories

SS316 See page 145

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni Light EP 22% fine-meshed	**PP-HW** W	**PP-HW** W	**PP-HW** W
	PP-HW B	**PP-HW** B	**PP-HW** B

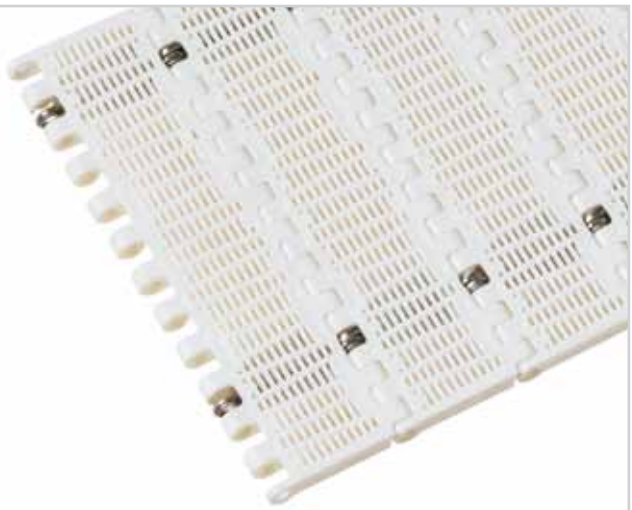
Alternative pin materials and colors: See above

Standard Bricklayed Belt Widths (See next page for Single Link® widths)

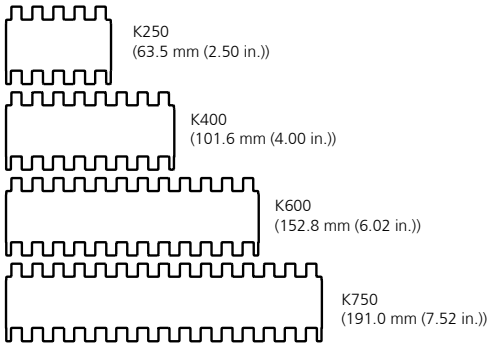
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
102	4.0	661	26.0	1170	46.1	1678	66.1	2186	86.1
152	6.0	712	28.0	1220	48.0	1728	68.0	2236	88.0
254	10.0	763	30.0	1271	50.0	1779	70.0	2287	90.0
305	12.0	814	32.0	1322	52.0	1830	72.0	2338	92.0
355	14.0	865	34.0	1373	54.0	1881	74.1	2389	94.1
406	16.0	916	36.1	1424	56.1	1932	76.1	2440	96.1
458	18.0	966	38.0	1474	58.0	1982	78.0	-	-
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	44.1	1627	64.1	2135	84.1	-	-

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni Light EP Single Link®



uni Light EP Single Link® is available in the following standard widths:



uni Light EP Single Link® standard materials and colors see page 144.

Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m²		lb/ft²		kg/m²		lb/ft²		kg/m²		lb/ft²	
uni Light EP 22% fine-mesh.	4.8	0.98	8.4	1.72	3.4	0.70	7.0	1.43	3.6	0.74	7.2	1.48

Permissible Tensile Strength

Belt material	POM		PP		PE	
	N/m	lbf/ft	N/m	lbf/ft	N/m	lbf/ft
uni Light EP 22% fine-mesh.	10250	702	5125	351	3075	211

uni Light EP 22% Reinforcement Link

The use of uni-chains belts with the SS reinforcement /pitch control links in blanchers, cookers and other high temperature applications will reduce belt elongation due to temperature by more than 90%. This will simplify the belt take-up system and reduce maintenance.

uni-chains recommends one reinforcement link per K600 module.

Note: Reinforcement links require the use of SS pins.

Load Capacity per Reinforcement Link

	N/row	lbf/row
uni Light EP 22% fine-meshed	1000	225

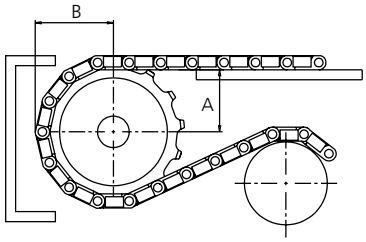
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
7	87.8	3.46	86.0	3.39	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	253PA6EP07211LG00
9	111.4	4.39	110.6	4.35	90.0	3.54	ø18.0/70.0*	ø0.71/2.76*	253PA6EP09211N00
							sq 38.1	sq 1.50	253PA6EP09211N00I150S
10	123.3	4.85	122.7	4.83	100.0	3.94	ø18.0/70.0*	ø0.71/2.76*	253PA6EP10211N00
							sq 38.1	sq 1.50	253PA6EP10211N00I150S
							sq 40.0	sq 1.57	253PA6EP10211N00M040S
11	135.2	5.32	134.9	5.31	110.0	4.33	ø18.0/70.0*	ø0.71/2.76*	253PA6EP11211N00
12	147.2	5.80	147.1	5.79	120.0	4.72	ø18.0/70.0*	ø0.71/2.76*	253PA6EP12211LG00
							sq 38.1	sq 1.50	253PA6EP12211N00I150S
							sq 40.0	sq 1.57	253PA6EP12211N00M040S
15	183.3	7.22	183.6	7.23	120.0	4.72	ø18.0/40.0*	ø0.71/1.57*	253PA6EP15211N00

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
7	48.3	1.90	35.2	1.39
9	60.0	2.36	48.0	1.89
10	66.0	2.60	54.3	2.14
11	72.0	2.83	60.5	2.38
12	78.0	3.07	66.7	2.63
15	96.0	3.78	85.3	3.36



Width of sprockets: 23.2 mm (0.91 in.)
Tooth width: 11.8 mm (0.47 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM		PP	
	N	lbf	N	lbf
uni Light EP	1000	225	600	135

Made-To-Order Selection

uni Light EP C

uni Light EP Rib C

uni Light EP 8.5%

uni Light EP 18%

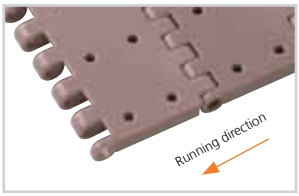
uni Light EP 22%

uni Light EP 28%

uni Light EP 33%

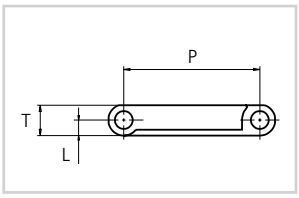
uni Light EP 33% Rib

uni Light EP 46%

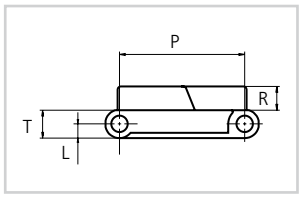


uni Light EP Vacuum

Dimensional Sketches



uni Light EP



uni Light EP Rib C
uni Light EP Rib 33%

Dimensions

	mm	in.
L	4.3	0.17
P	38.1	1.50
R	7.3	0.29
T	8.5	0.33

Made-To-Order Materials

POM-D, POM-LF and PE

Straight running

38.1 mm (1.50 in.)

ø5 mm (0.20 in.)

Patented

See page 8

75 mm (3.0 in.)
uni Light EP Rib: 150 mm (5.9 in.)

See page 146

See page 172

PP B W G

PP W **PA6.6** B SS304
PE W

PP W

Accessories

See page 149

See page 150

See page 149

See page 151

See page 145

Made-To-Order Bricklayed Belt Widths

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
102	4.0	661	26.0	1170	46.1	1678	66.1	2186	86.1
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	34.1	1373	54.1	1881	74.1	2389	94.1
406	16.0	916	36.1	1424	56.1	1932	76.1	2440	96.1
458	18.0	966	38.0	1474	58.0	1982	78.0	-	-
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	44.1	1627	64.1	2135	84.1	-	-

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C (73° F).

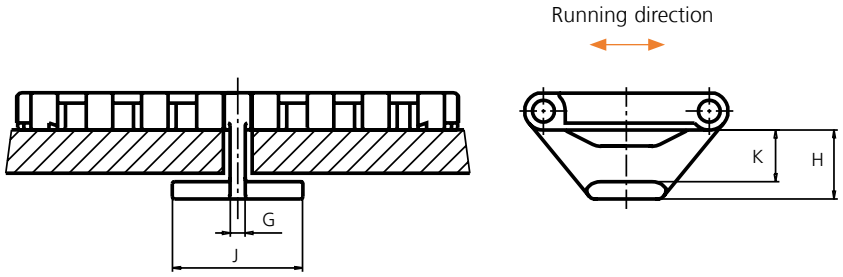
Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni Light EP C | 8.5% | vac.	5.7	1.17	9.3	1.90	3.7	0.76	7.3	1.50	4.0	0.82	7.6	1.56
uni Light EP 18% | 28%	4.8	0.98	8.4	1.72	3.4	0.70	7.0	1.43	3.6	0.74	7.2	1.47
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	1.02	8.6	1.76

Permissible Tensile Strength

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

Made-To-Order Accessories | Tab



uni Light EP Tab

Dimensions

	mm	in.
G	3.5	0.14
H	16.4	0.65
J	26.0	1.02
K	12.4	0.49

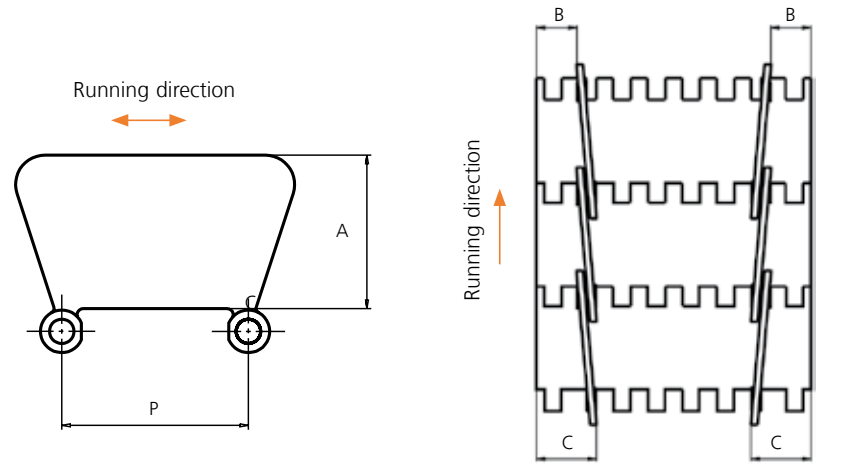
Note: When using tabs please verify that sufficient clearance to the shaft exists. Max. shaft diameter = Sprocket pitch diameter - 44.5 mm (1.75 in.). When using square shafts verify that the diagonal does not exceed above max. diameter. Example: Sprocket z = 7: Max. shaft diameter 87.8 - 44.5 = ø43 mm (3.46 - 1.75 = ø1.7 in.).

Made-To-Order Material

POM-D

Note: In belt systems with tabs, the temperature of the conveyor should be constant. Please note that the tabs are not always placed in the middle of the belt.

Made-To-Order Accessories | Side Guard



uni Light Side Guard

Dimensions

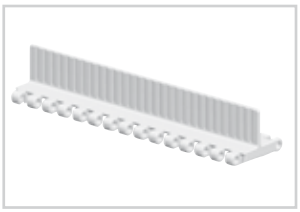
	mm	in.
A	31.7	1.25
B	15.0	0.59
C	23.0	0.91
P	38.1	1.50

Increment: 6.5 mm (0.26 in.).

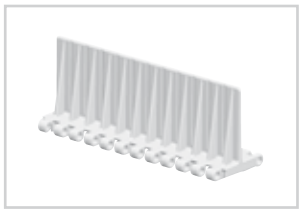
Made-To-Order Material

POM-D

Made-To-Order Accessories | Product Support

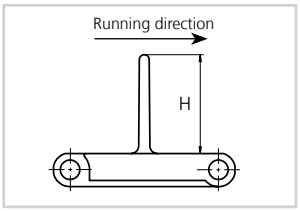


uni Light EP
Product Support flat (no ribs)

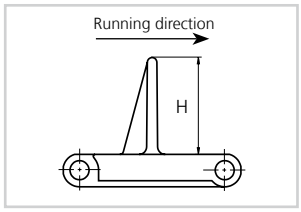


uni Light EP
Product Support with Ribs

Dimensional Sketches



uni Light EP
Product Support flat (no ribs)



uni Light EP
Product Support with Ribs

Made-To-Order Materials

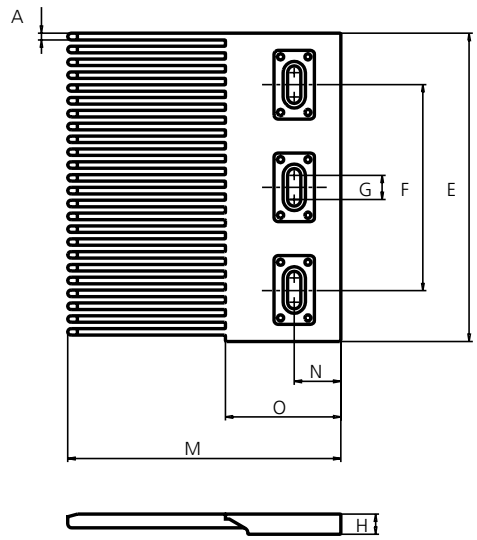
POM-D, PP-I and PE

Dimensions

Style	H		Width			Indent left/right	
	mm	in.	Type	mm	in.	mm	in.
uni Light EP Product Support flat	25.4	1.00	K750	191.0	7.52	no*	
uni Light EP Product Support with Ribs	25.4	1.00	K400	101.6	4.00	no*	
	25.4	1.00	K600	152.8	6.02	no*	
uni Light EP Product Support with Ribs	50.8	2.00	K400	101.6	4.00	no*	
	50.8	2.00	K600	152.8	6.02	no*	
uni Light EP Product Support flat	50.8	2.00	K750	191.0	7.52	17.5	0.69
uni Light EP Product Support with Ribs	76.2	3.00	K600	152.8	6.02	no*	

** Minimum bricklayed indent for uni Light EP product support is 38.1 mm (1.50 in.). Increment: 12.7 mm (0.50 in.).*

Made-To-Order Selection Accessories



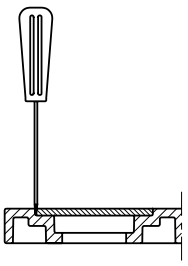
Snap-On
Cover Caps

uni Light EP Finger Plate Type 2

Dimensions

	mm	in.
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

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



Pitch 50.0 mm (1.97 in.)

uni L-SNB – the heavy duty Open Top and Rib Top belt

The uni Large SNB 2 in. pitch belt is designed for heavy duty applications in various industries. The unique surface profile limits friction and contact between products and belt and increases airflow. The uni L-SNB belt has the unique stainless steel reinforcement link feature which allows pitch control in high temperature applications.

The uni L-SNB belt increases performance in the following industries/applications:

- Meat applications including microwaves, and cooling freezing lines
- Fruit & vegetable applications including de-watering lines, cooling and lines
- Pasta applications including blanchers, pasteurizers and cooling lines
- Beverage applications including accumulating tables, pasteurizers and palletizers
- Can manufacturing applications including accumulation tables, mass handling, palletizers, battery filling and charging lines

Product features and operational benefits:

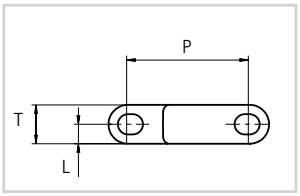
- Less friction and product contact - for easy cooking, cooling of products
- Large open area for easy drainage
- Steel reinforcement feature reducing belt elongation in high temperature applications
- Easy cleaning providing less maintenance and downtime
- Finger plates for trouble free transfer
- Small backflex radius for lower profile conveyors

Standard Selection

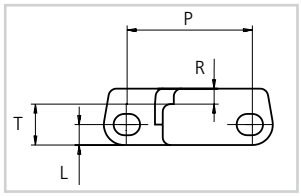
uni L-SNB
Surface opening 36%

uni L-SNB Rib
Surface opening 36%

Dimensional Sketches



uni L-SNB



uni L-SNB Rib

Dimensions

	mm	in.
L	8.0	0.31
P	50.0	1.97
R	6.0	0.23
T	16.0	0.63

Straight running

50.0 mm (1.97 in.)

Endlock

ø8 mm (0.31 in.)

Patented

See page 8

70 mm (2.8 in.)
uni L-SNB Rib: 140 mm (5.5 in.)

See page 156

See page 172

Alternative

PE W SS304

Accessories

See page 157

SS316 See page 155

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors	Standard lock materials and colors
uni L-SNB	PP W	PP W	PP W
	PP N	PP W	PP N
uni L-SNB Rib	POM-LF BR	PP W	PP G
	PP G	PP W	PP G

Alternative pin materials and colors: PE W SS304

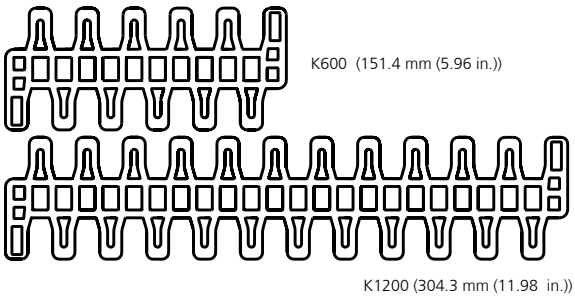
Standard Bricklayed Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
152	6.0	760	29.9	1369	53.9	1977	77.8	2585	101.8
228	9.0	836	32.9	1445	56.9	2053	80.8	2661	104.8
304	12.0	912	35.9	1521	59.9	2129	83.8	2737	107.8
380	15.0	988	38.9	1597	62.9	2205	86.8	2813	110.7
456	18.0	1064	41.9	1673	65.9	2281	89.8	2889	113.7
532	20.9	1140	44.9	1749	68.9	2357	92.8	2965	116.7
608	23.9	1217	47.9	1825	71.9	2433	95.8	3041	119.7
684	26.9	1293	50.9	1901	74.8	2509	98.8	3117	122.7

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.

uni L-SNB Single Link®

uni L-SNB Single Link® is available in the following standard widths:



uni L-SNB Single Link® standard materials and colors see page 154.

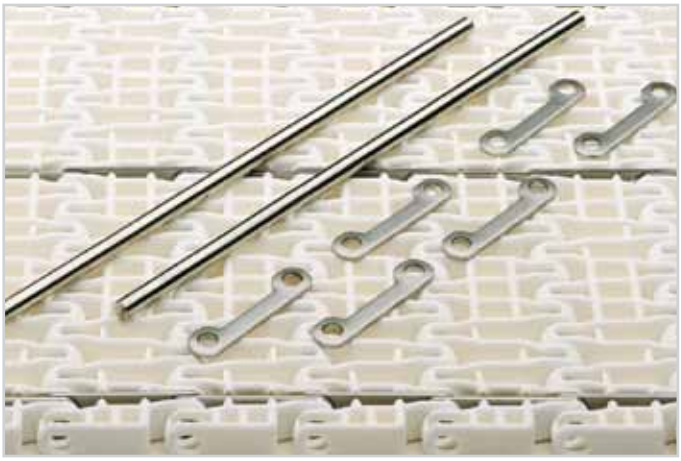
Belt Weights

Belt material	POM-LF				PP			
Pin material	plastic		steel		plastic		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni L-SNB	10.2	2.09	17.1	3.50	6.7	1.37	13.8	2.83
uni L-SNB Rib	14.8	3.03	21.8	4.46	9.8	2.01	16.7	3.42

Permissible Tensile Strength

Belt material	POM-LF		PP	
	N/m	lbf/ft	N/m	lbf/ft
uni L-SNB	35000	2398	17500	1199
uni L-SNB Rib	55000	3768	29800	12042

uni L-SNB Reinforcement Link



The use of uni-chains belts with the SS reinforcement /pitch control links in blanchers, cookers and other high temperature applications will reduce belt elongation due to temperature by more than 90%. This will simplify the belt take-up system and reduce maintenance.

uni-chains recommends three reinforcement links per K1200 module.

Note: Reinforcement links require the use of SS pins.

Load Capacity per Reinforcement Link

	N/row	lbf/row
uni L-SNB	2500	562

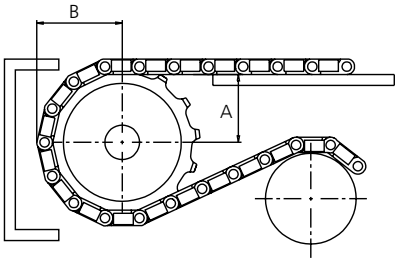
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	100.0	3.94	92.5	3.64	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	203PA6LSNB06211LG00
8	130.7	5.15	128.6	5.06	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	203PA6LSNB08211LG00
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76*	203PA6LSNB08211N01
10	161.8	6.37	159.8	6.29	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	203PA6LSNB10211LG00
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	203PA6LSNB10211N01
12	193.2	7.61	192.5	7.58	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	203PA6LSNB12211LG00
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	203PA6LSNB12211N01
16	256.3	10.09	257.3	10.13	200.0	7.87	ø40.0/70.0*	ø1.57/2.76*	203PA6LSNB16211N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	58.0	2.28	35.3	1.39
8	73.3	2.89	52.4	2.06
10	88.9	3.50	69.0	2.72
12	104.6	4.12	85.3	3.36
16	136.1	5.36	117.7	4.63



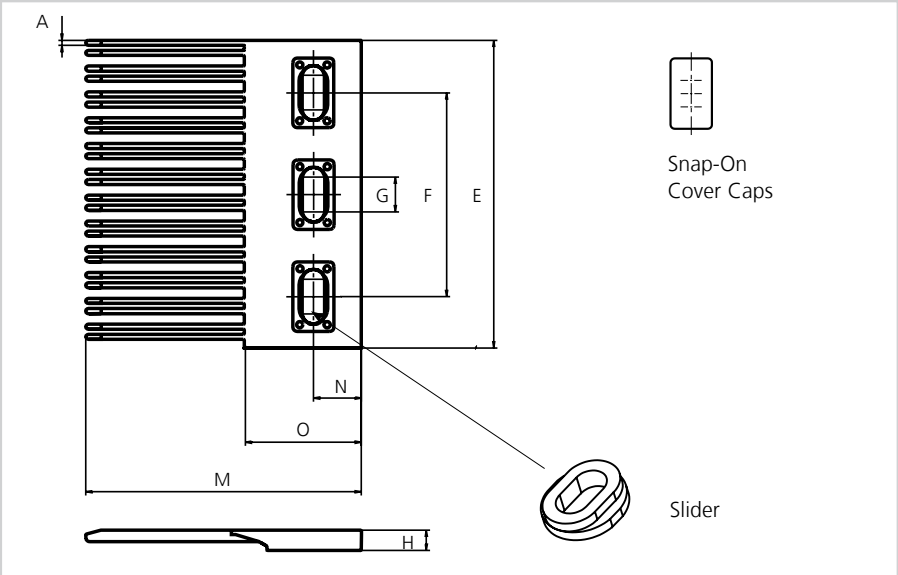
Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 7.0 mm (0.28 in.)
Standard material: PA6

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Max. Load per Sprocket

Belt material	POM-LF		PP	
	N	lbf	N	lbf
uni L-SNB	4000	899	2200	496

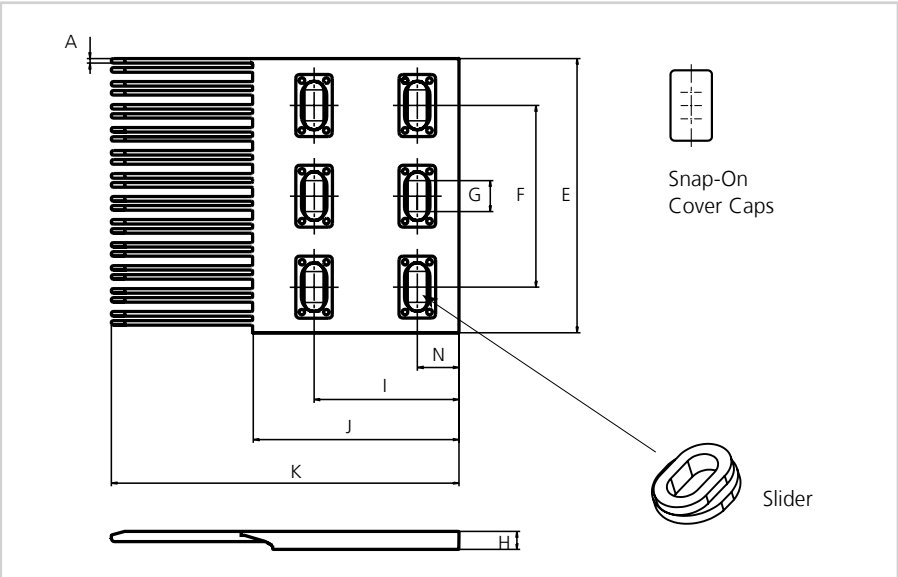
Accessories | Finger Plates



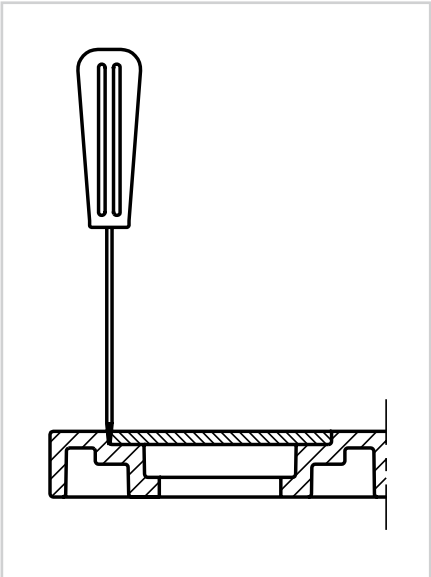
uni L-SNB Finger Plate Type A

Dimensions

	mm	in.
A	2.5	0.10
E	152.1	5.99
F	100.3	3.95
G	12.0	0.47
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	6.18



uni L-SNB Finger Plate Type B



All uni-chains belt systems are available in a raised rib version that can be supplied with matching finger plates, also called combs.
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. In order to adjust to belt width variations caused by temperature fluctuations, a slider facilitates the sideways movement of the finger plates.

Standard Material and Color

POM-LF BR **POM-DI** G

Pitch 50.0 mm (1.97 in.)

uni OPB – the open belt with a unique top and bottom surface

The uni OPB 2 in. pitch belt is developed for the processes of cooking, blanching and pasteurizing in the food industry. The different openings provide high performance with various food products.

The uni OPB belt is commonly used in the following industries/ applications:

- Fruit & vegetable applications including elevators, blanchers, cooking lines and pasteurizers
- Pasta applications including blanchers, pasteurizers and cooling lines
- Agricultureal applications (corn & rice) including, elevators, blanchers and cooking lines
- Beverage applications including accumulating tables, pasteurizers and palletizers

Product features and operational benefits:

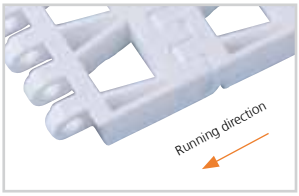
- Small or large opening including fine mesh for water drainage
- Pitch control/steel reinforcement feature reduce belt elongation with up to 90% in high temperature applications
- Wear and impact resistant bottom surface
- Reinforced product supports for high load elevators and incline conveyors
- Finger plates for trouble free transfer

Standard Selection

uni OPB 4V 23%

uni OPB 4V 23%
fine-meshed

uni OPB 4V 23% Rib

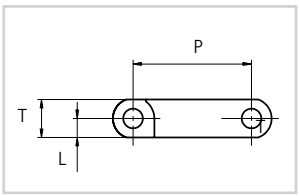


uni OPB 4V 36%

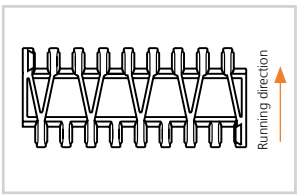
** Running in both directions is possible. uni-chains recommends this travel direction.*

Note: uni OPB 4V 23%, uni OPB 4V 23% Rib and uni OPB 4V 36% are listed in the USDA "Accepted Meat and Poultry Equipment" publication as accepted for food contact.

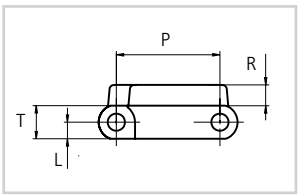
Dimensional Sketches



uni OPB 4V



Bottom uni OPB 4V



uni OPB 4V Rib

Dimensions

	mm	in.
L	8.0	0.31
P	50.0	1.97
R	10.0	0.39
T	16.0	0.63

Straight running

50.0 mm (1.97 in.)

ø8 mm (0.31 in.)

Materials See page 8

75 mm (3.0 in.)
Rib: 300 mm (11.8 in.)
Side Guards: 200 mm (7.9 in.)

See page 161

See page 172

Alternative

PE W **PA6.6** N B **PBT** LG

PP W **PE** W SS304 SS316 **PBT** LG

PP W G B **PE** W B

PP-HW LB

Accessories

See page 162

See page 162

See page 163

SS316 See page 160

Standard Materials and Colors

Type	Standard materials and colors	Standard pin materials and colors
uni OPB 4V 23%	PP-HW B	PP-HW LB
uni OPB 4V 23% fine-meshed	PP-HW B + PP W	PP-HW LB
uni OPB 4V 23% Rib	PP G	PP W
uni OPB 4V 36%	PP W	PP W

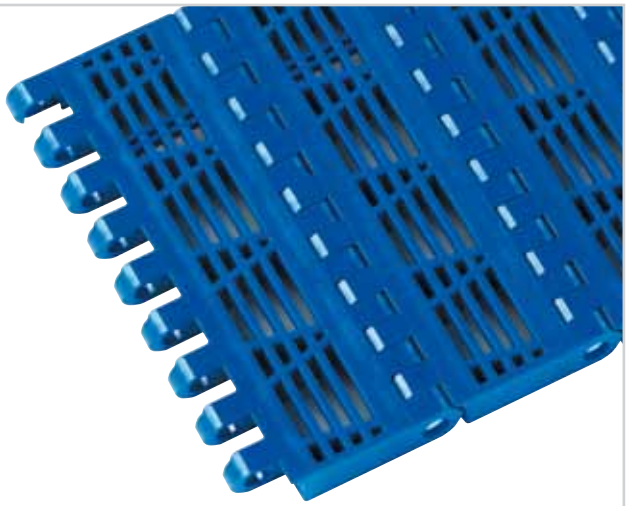
Alternative pin materials and colors: See above

Standard Bricklayed Belt Widths (See below for Single Link® widths)

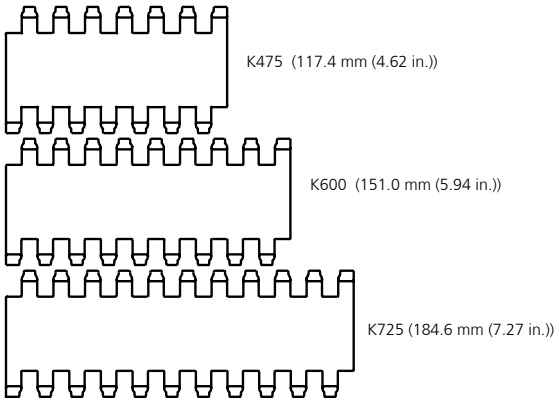
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
151	5.9	452	17.8	754	29.7	1055	41.5	2262	89.1
185	7.3	486	19.1	788	31.0	1206	47.5	2413	95.0
268	10.6	503	19.8	804	31.7	1357	53.4	2564	100.9
302	11.9	536	21.1	872	34.3	1508	59.4	2714	106.9
335	13.2	570	22.4	905	35.6	1659	65.3	2865	112.8
386	15.2	603	23.7	938	36.9	1810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

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C/73°F.
Note: For belt widths for 23% fine-meshed, please add 0.35% to above values.

uni OPB Single Link®



uni OPB Single Link® is available in the following standard widths:



uni OPB Single Link® standard materials and colors see page 158.

uni OPB Single Link® Belt Widths

Belt type and widths	**K475** 117.4 mm (4.62 in.)	**K600** 151.0 mm (5.94 in.)	**K725** 184.6 mm (7.27 in.)
uni OPB 4V 23%	X	X	X
uni OPB 4V 23% fine-meshed	X	X	X
uni OPB 4V 23% Rib		X	
uni OPB 4V 36%		X	

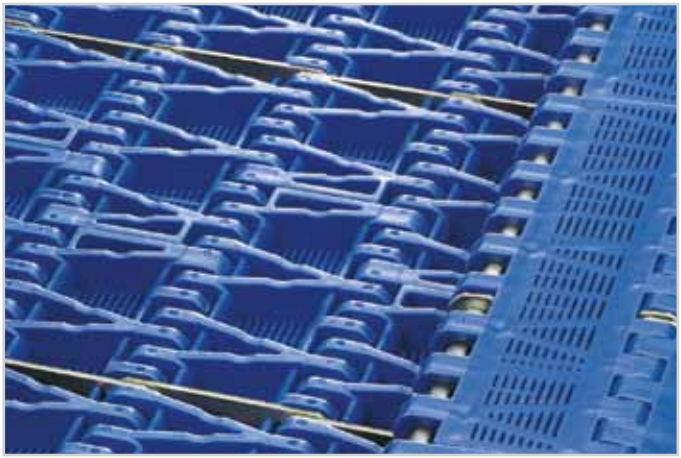
Belt Weights

Belt material	POM				PP			
Pin material	plastic		steel		plastic		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni OPB 23% fine-meshed	10.1	2.07	17.0	3.48	6.8	1.39	13.7	2.81
uni OPB Rib	14.6	2.99	21.5	4.40	9.7	1.99	16.6	3.40
uni OPB 36%	9.5	1.95	14.4	3.36	6.4	1.31	13.3	2.72

Permissible Tensile Strength

Belt material	POM		PP	
	N/m	lbf/ft	N/m	lbf/ft
uni OPB 4V	22000	1507	11000	754

uni OPB Reinforcement/Pitch Control Links



The use of uni-chains belts with the SS reinforcement /pitch control links in blanchers, cookers and other high temperature applications will reduce belt elongation due to temperature by more than 90%. This will simplify the belt take-up system and reduce maintenance.

uni-chains recommends one reinforcement link per K600 module.

Note: Reinforcement links require the use of SS pins.

Load Capacity per Reinforcement Link

	N/row	lbf/row
uni OPB	2500	562

Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. plastic
	mm	in.	mm	in.	mm	in.	mm	in.	
6	100.0	3.94	94.5	3.72	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	243PA6OPBS06211N00
							sq 38.1	sq 1.50	243PA6OPBS06211N00I150S
							sq 40.0	sq 1.57	243PA6OPBS06211N00M040S
8	130.7	5.15	129.0	5.08	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	243PA6OPBS08211N00
							sq 38.1	sq 1.50	243PA6OPBS08211N00I150S
							sq 40.0	sq 1.57	243PA6OPBS08211N00M040S
10	161.8	6.37	160.1	6.30	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	243PA6OPBS10211N00
							sq 38.1	sq 1.50	243PA6OPBS10211N00I150S
							sq 40.0	sq 1.57	243PA6OPBS10211N00M040S
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	243PA6OPBS10211N01
12	193.2	7.61	191.5	7.54	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	243PA6OPBS12211N00
							sq 38.1	sq 1.50	243PA6OPBS12211N00I150S
							sq 40.0	sq 1.57	243PA6OPBS12211N00M040S
					150.0	5.91	ø40.0/70.0*	ø1.57/2.76*	243PA6OPBS12211N01
13	208.9	8.22	207.3	8.16	72.0	2.83	ø18.0/40.0*	ø0.71/1.57*	243PA6OPBS13211N00
					150.0	5.91	sq 38.1	sq 1.50	243PA6OPBS13211N01
16	256.3	10.09	254.9	10.04	200.0	7.87	ø40.0/70.0*	ø1.57/2.76*	243PA6OPBS16211N01

** Minimum/maximum round bore.*

Placement of Wearstrips and Sprockets

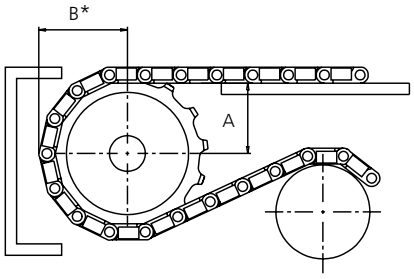
No. of teeth	Minimum B-dimension*		Wearstrip distance A	
	mm	in.	mm	in.
6	58.0	2.28	35.3	1.39
8	73.3	2.89	52.4	2.06
10	88.9	3.50	68.9	2.71
12	104.6	4.12	85.3	3.36
13	112.5	4.43	93.4	3.68
16	136.1	5.36	117.7	4.63

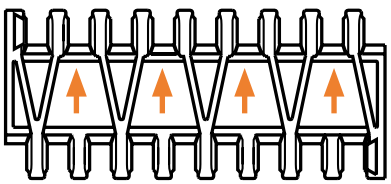
Width of sprockets: 42.3 mm (1.67 in.)
Tooth width: 11.0 mm (0.43 in.)
Standard material: PA6

**Note B-dimension is for a Flat Top belt. In case of other belt configuration please add height of Rib-Top, Product Supports or Side guards to B-dimension.*

Other sprocket sizes are available upon request. Two-part sprockets are available upon request.

Placing of Sprockets





Max. Load per Sprocket

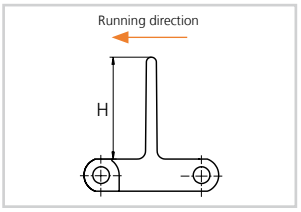
Belt material	POM		PP	
	N	lbf	N	lbf
uni OPB	3500	787	2000	450

Accessories | Product Support

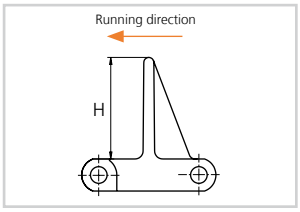
uni OPB Product Support
No Cling

uni OPB Product Support
No Cling with Ribs

Dimensional Sketches



uni OPB Product Support
No Cling

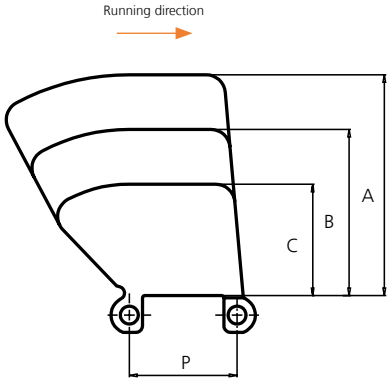


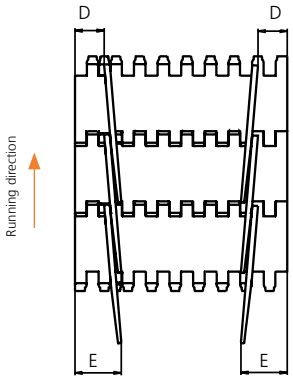
uni OPB Product Support
No Cling with Ribs

Standard Materials, Colors and Dimensions

Style	H		Width			Standard materials & colors
	mm	in.	Type	mm	in.	
uni OPB 4V PS No Cling	50.8	2.00	K600	151.0	5.94	**PP-HW** B
	76.2	3.00	K600	151.0	5.94	**PP-HW** B
	101.6	4.00	K600	151.0	5.94	**PP-HW** B
uni OPB 4V PS No Cling with Ribs	50.8	2.00	K600	151.0	5.94	**PP-HW** B
	76.2	3.00	K600	151.0	5.94	**PP-HW** B
	101.6	4.00	K600	151.0	5.94	**PP-HW** B
uni OPB 4V 23F PS No Cling	101.6	4.00	K600	151.0	5.94	**PP-HW** B
uni OPB 4V 23F PS No Cling with Ribs	76.2	3.00	K600	151.0	5.94	**PP-HW** B
	101.6	4.00	K600	151.0	5.94	**PP-HW** B

uni OPB Side Guard





Dimensions

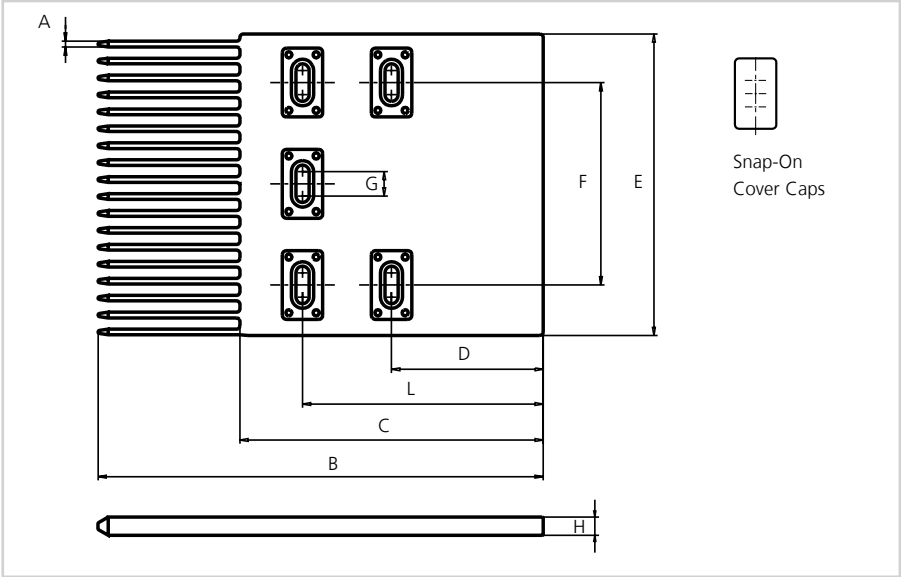
	mm	in.
A	102.6	4.04
B	77.2	3.04
C	51.8	2.04
D*	21.0	0.83
E*	34.0	1.34
P	50.0	1.97

** Min. indent*
Increment: 8.4 mm (0.33 in.)

Standard Materials and Colors

PP-HW B

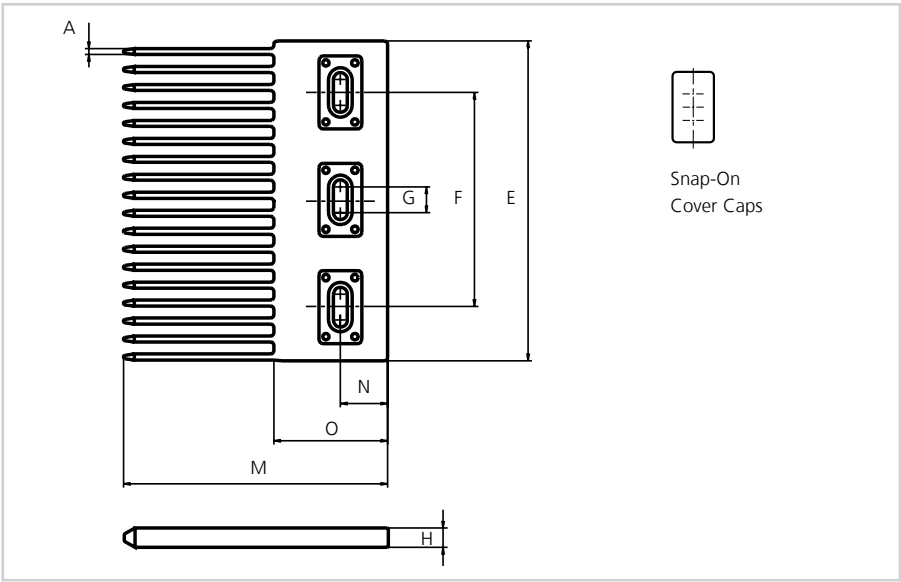
Accessories | Finger Plate



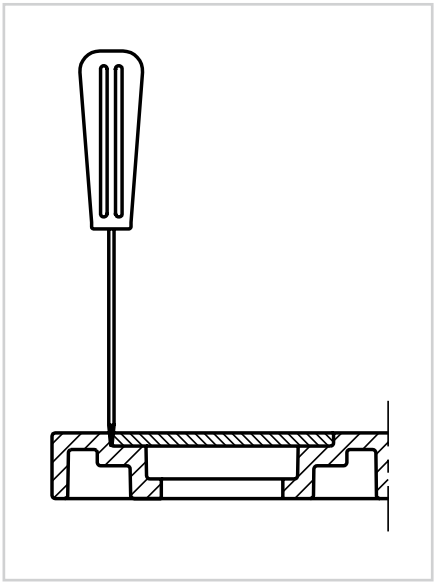
uni OPB Finger Plate Type 1A

Dimensions

	mm	in.
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
L	119.0	4.69
M	123.0	4.84
N	22.0	0.87
O	53.0	2.09



uni OPB Finger Plate Type 2



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

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.

Standard Material and Color

POM-DI G

Made-To-Order Selection

uni OPB C

uni OPB Rough

uni OPB 20%

uni OPB 25%

uni OPB vacuum
Surface opening 6%

uni OPB Rubber Top
Type RB1

uni OPB Rubber Top
Type RB2

uni OPB Rubber Top
Type RB3

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

Straight running

50.0 mm (1.97 in.)

ø8 mm (0.31 in.)

Materials — See page 8

75 mm (3.0 in.)
Rib: 300 mm (11.8 in.)
Side Guards: 200 mm (7.9 in.)

See page 162
Special sprockets for uni OPB
8P & 8M upon request

See page 172

PP W **PE** W **PA6.6** N

PP W G B **PE** W B

PP W **PE** W **SS304** **SS316**

PP W

03 N K See page 12

Accessories

See page 166

See page 167

See page 162

See page 168

Made-To-Order Materials

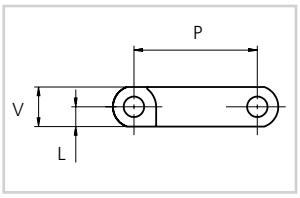
POM-D, POM-LF, POM-SLF, PP, PE, PA6.6 and PA6.6H

Made-to-Order Bricklayed Belt Widths

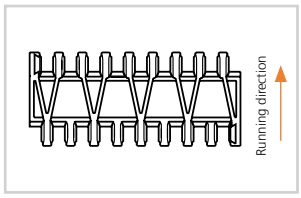
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
151	5.9	452	17.8	754	29.7	1055	41.5	2262	89.1
185	7.3	486	19.1	788	31.0	1206	47.5	2413	95.0
268	10.6	503	19.8	804	31.7	1357	53.4	2564	100.9
302	11.9	536	21.1	872	34.3	1508	59.4	2714	106.9
335	13.2	570	22.4	905	35.6	1659	65.3	2865	112.8
386	15.2	603	23.7	938	36.9	1810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

On above belt width values, the belt width tolerance on standard materials is +0/-0.4% at 23°C (73° F).

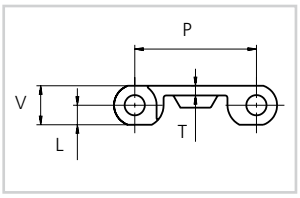
Dimensional Sketches



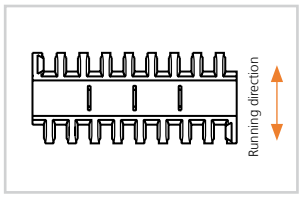
uni OPB 4V



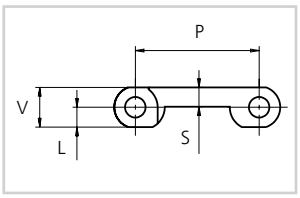
Bottom uni OPB 4V



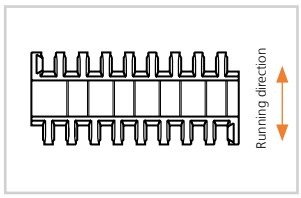
uni OPB 4



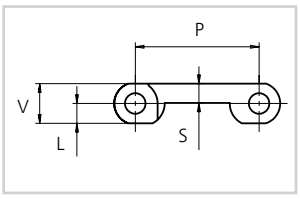
Bottom uni OPB 4



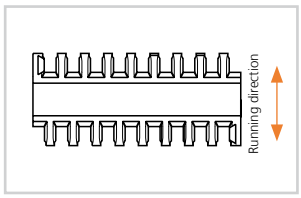
uni OPB 8



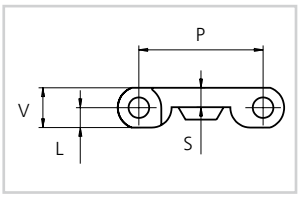
Bottom uni OPB 8



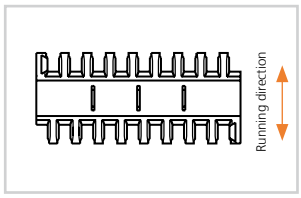
uni OPB 8P



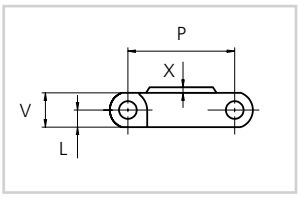
Bottom uni OPB 8P



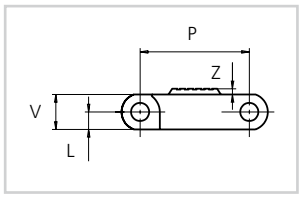
uni OPB M



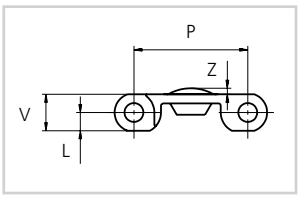
Bottom uni OPB 8M



uni OPB Rubber Top RB1



uni OPB Rubber Top RB2



uni OPB Rubber Top RB3

Dimensions

	mm	in.
L	8.0	0.31
P	50.0	1.97
S	7.8	0.31
T	4.0	0.16
V	16.0	0.63
X	2.5	0.10
Z	2.0	0.08

Combinations of Top and Bottom Surfaces

Bottom / Top	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 25%				X*	
uni OPB Vacuum	X		X		

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

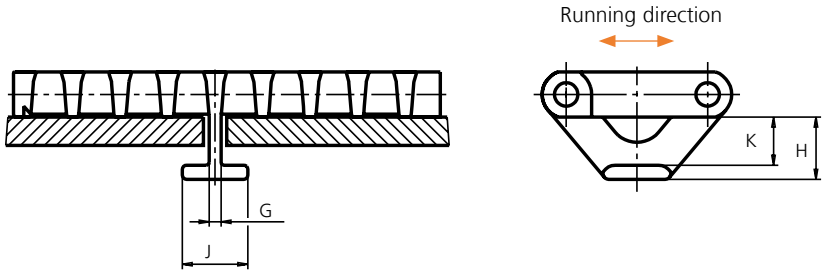
Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²	kg/m²	lb/ft²
uni OPB C | Rough | Vacuum	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% | 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

Permissible Tensile Strength

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

Made-To-Order Accessories | Tab



uni OPB Tab

Dimensions

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

Note: When using tabs, please verify sufficient clearance to the shaft. Max. shaft diameter = Sprocket pitch diameter - 63.5 mm (2.50 in.). When using square shafts verify that the diagonal does not exceed max. diameter. Example: Sprocket z = 6: Max. shaft diameter 100.0 - 63.5 = ø36 mm (3.94 - 2.50 = ø1.4 in.).

Made-To-Order Material

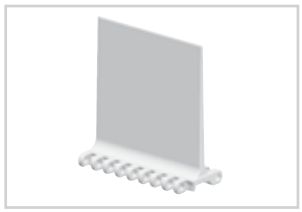
POM-D, POM-LF and PP

Note: When using a belt system with tabs the temperature should be constant. Please note that the tabs are not always placed in the middle of the belt.

Made-To-Order Accessories | Product Support

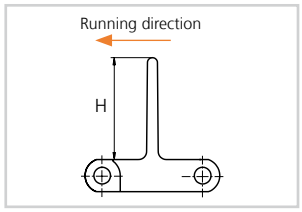
uni OPB
Product Support No Cling

uni OPB
Product Support No Clings with Ribs

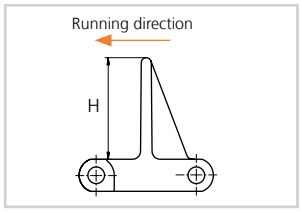


uni OPB
Product Support Flat

Dimensional Sketches



uni OPB
Product Support No Cling and Flat



uni OPB
Product Support No Cling with Ribs

Made-To-Order Materials

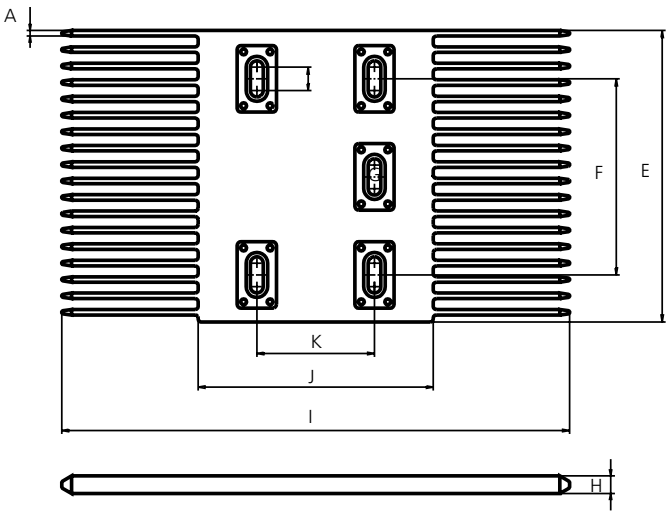
PPHW

Dimensions

Style	H		Width		
	mm	in.	Type	mm	in.
uni OPB 4 Product Support No Cling	50.8	2.00	K600	151.0	5.94
	76.2	3.00	K600	151.0	5.94
	101.6	4.00	K600	151.0	5.94
uni OPB 4 Product Support No Cling with Ribs	50.8	2.00	K600	151.0	5.94
	76.2	3.00	K600	151.0	5.94
	101.6	4.00	K600	151.0	5.94
uni OPB 4V 23F Product Support No Cling	50.8	2.00	K600	151.0	5.94
	76.2	3.00	K600	151.0	5.94
	101.6	4.00	K600	151.0	5.94
uni OPB 4V 23F Product Support No Cling with Ribs	50.8	2.00	K600	151.0	5.94
	76.2	3.00	K600	151.0	5.94
	101.6	4.00	K600	151.0	5.94
uni OPB 8 | OPB 8P | OPB 8M Product Support No Cling	50.8	2.00	K600	151.0	5.94
	76.2	3.00	K600	151.0	5.94
	101.6	4.00	K600	151.0	5.94
uni OPB 8 | OPB 8P | OPB 8M Product Support No Cling with Ribs	50.8	2.00	K600	151.0	5.94
	76.2	3.00	K600	151.0	5.94
	101.6	4.00	K600	151.0	5.94
uni OPB 8 Product Support Flat	152.4	6.00	K600	151.0	5.94

** Minimum bricklayed indent for uni OPB product support is 21.0 mm (0.83 in.). Increment: 8.4 mm (0.33 in.).*

Made-To-Order Accessories | Finger Plate

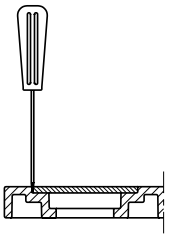


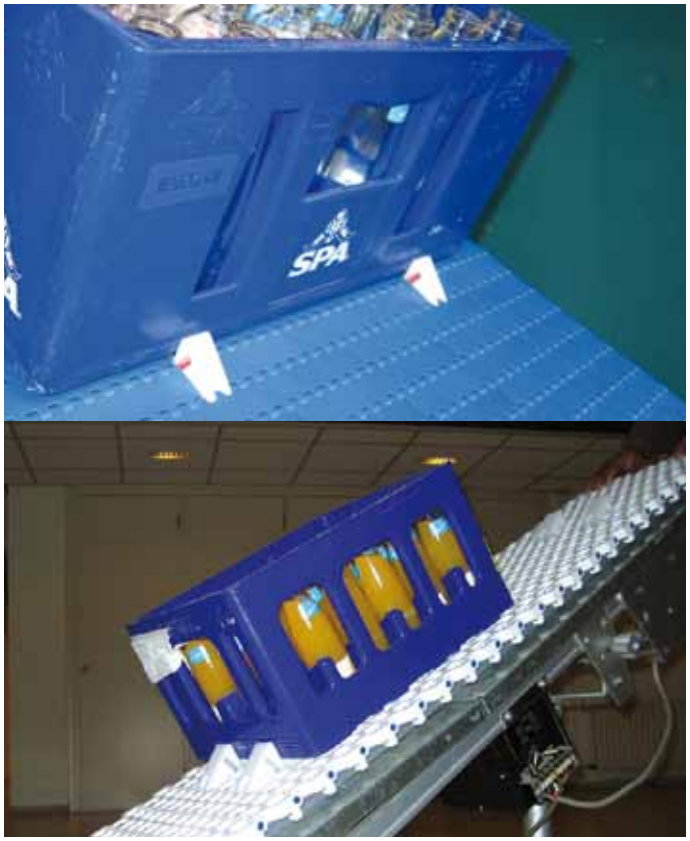
uni OPB Finger Plate Type 3

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

Dimensions

	mm	in.
A	2.8	0.11
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





Simple, but yet very effective

Innovative and patented flight design ensures multifunctional use of features in one belt.

- uni AmFlights are down when loading products onto the belt

Inclining or declining transport
- uni AmFlights are activated

Unloading sideways
- uni AmFlights are down allowing the unloading of products

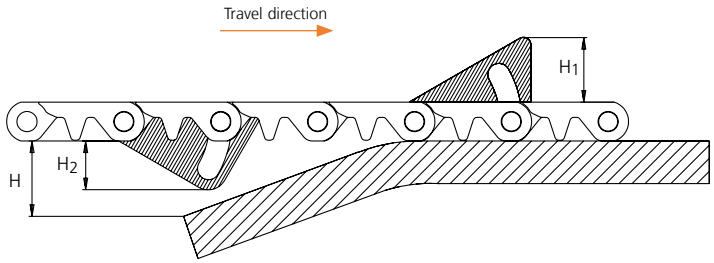
Standard uni AmFlight available for belt series

- uni S-MPB
- uni SNB M2
- uni QNB
- uni CPB
- uni Flex L-ASB

Non standard AmFlights and AmFlight for other belt series on request.

---

uni AmFlight for uni S-MPB



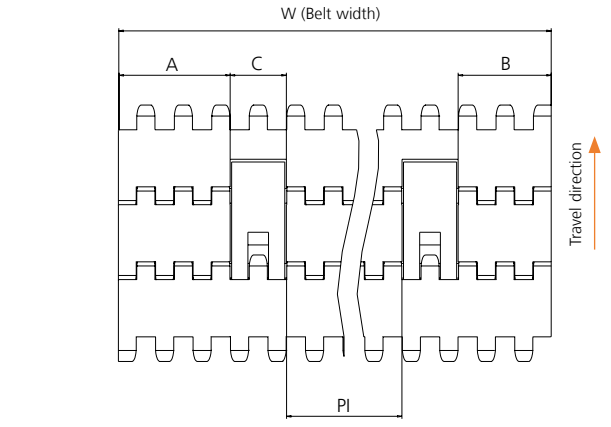
Dimensions

	mm	in.
H_1	17.0	0.67
H_2	12.8	0.50
H	17.0	0.67

uni AmFlight
type H17
for uni S-MPB

Materials
PE - Polyethylene
W

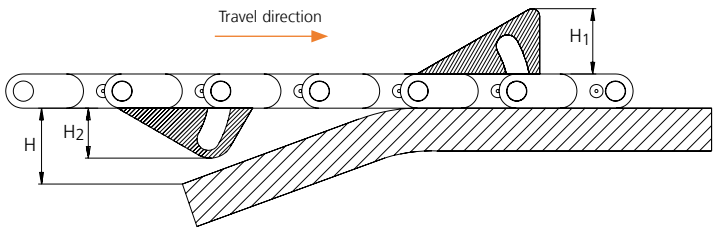
Dimensions



	mm	in.
A min.	38.4	1.51
B min.	32.1	1.26
C	18.0	0.71
Pl max.	W - 106.5	W - 4.19
Pl min.	32.8	1.29

Increment: 12.7 mm (0.50 in.)

uni AmFlight for uni SNB M2



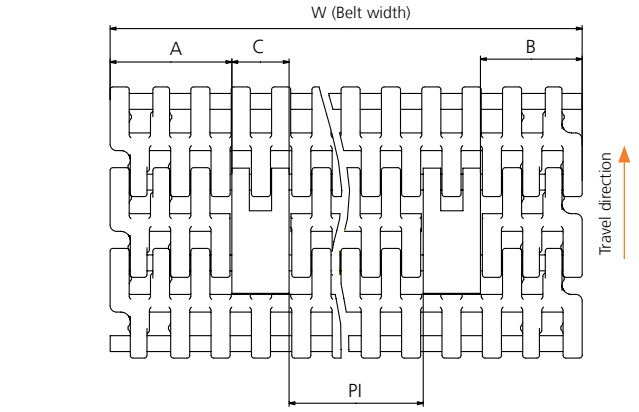
Dimensions

	mm	in.
H_1	17.0	0.67
H_2	14.4	0.57
H	17.0	0.67

uni AmFlight
type H17
for uni SNB M2

Materials
PE - Polyethylene
W

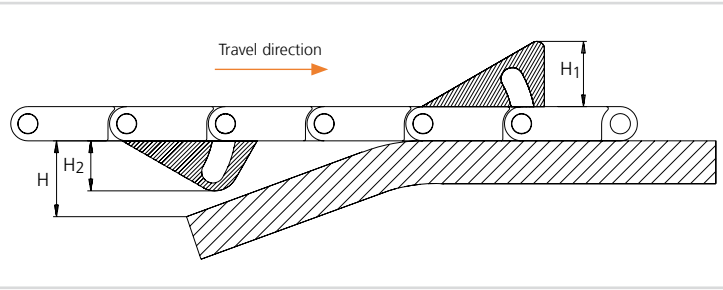
Dimensions



	mm	in.
A min.	38.3	1.51
B min.	32.1	1.26
C	18.0	0.71
Pl max.	W - 106.4	W - 4.19
Pl min.	33.2	1.31

Increment: 12.7 mm (0.50 in.)

uni AmFlight for uni QNB



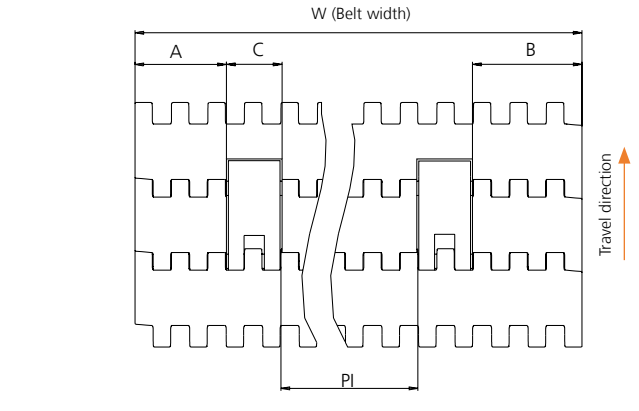
Dimensions

	mm	in.
H_1	17.0	0.67
H_2	14.0	0.55
H	17.0	0.67

uni AmFlight
type H17
for uni QNB

Materials
PE - Polyethylene
W

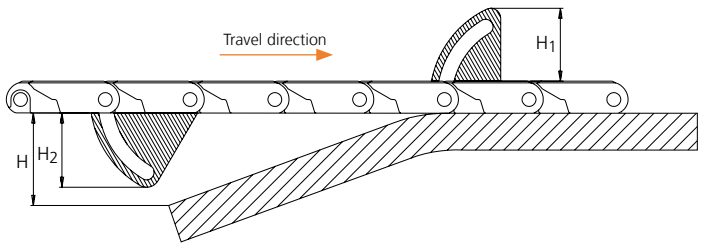
Dimensions



	mm	in.
A min.	32.4	1.28
B min.	38.5	1.52
C	18.0	0.71
Pl max.	W - 106.9	W - 4.21
Pl min.	32.7	1.29

Increment: 12.7 mm (0.50 in.)

uni AmFlight for uni CPB

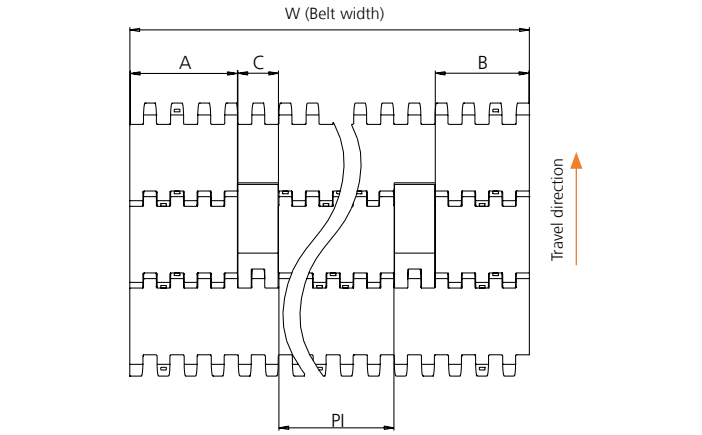


Dimensions

	mm	in.
H_1	45.0	1.77
H_2	45.6	1.80
H	56.2	2.21

uni AmFlight
type H45
for uni CPB

Materials
PE - Polyethylene
W

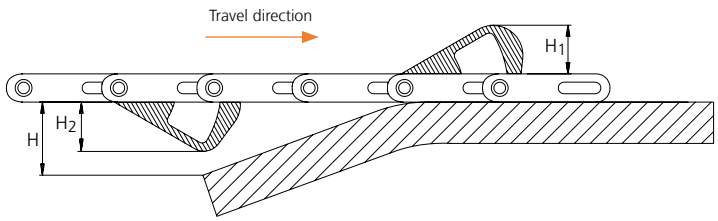


Dimensions

	mm	in.
A min.	67.7	2.67
B min.	59.3	2.33
C	24.0	0.94
Pl max.	W - 175.0	W - 6.89
Pl min.	43.2	1.70

Increment: 17.0 mm (0.70 in.)

uni AmFlight for uni Flex L-ASB

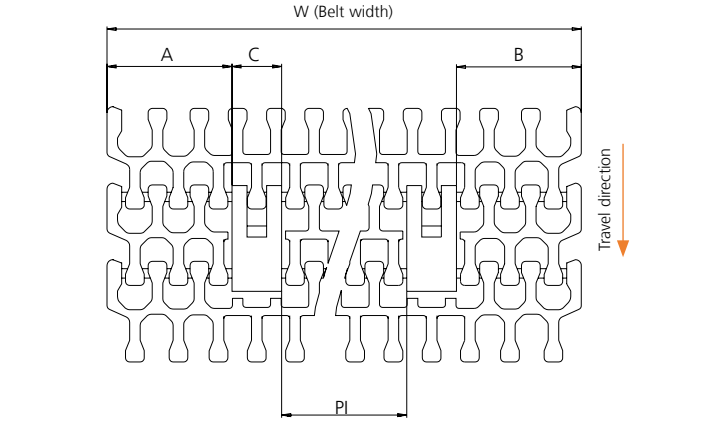


Dimensions

	mm	in.
H_1	26.0	1.02
H_2	25.4	1.00
H	34.2	1.35

uni AmFlight
type H26
for uni Flex L-ASB

Materials
PE - Polyethylene
W



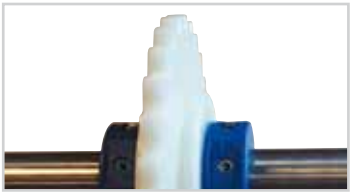
Dimensions

	mm	in.
A min.	83.0	3.27
B min.	108.4	4.27
C	33.0	1.30
Pl max.	W - 257.4	W - 10.13
Pl min.	68.5	2.70

Increment: 22.8 mm (0.90 in.)

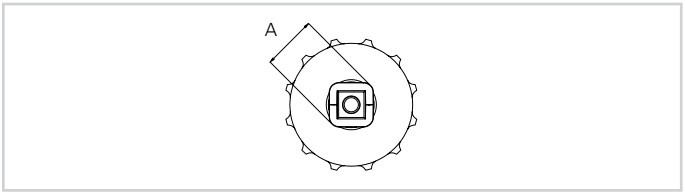
Accessories | Retainer Rings

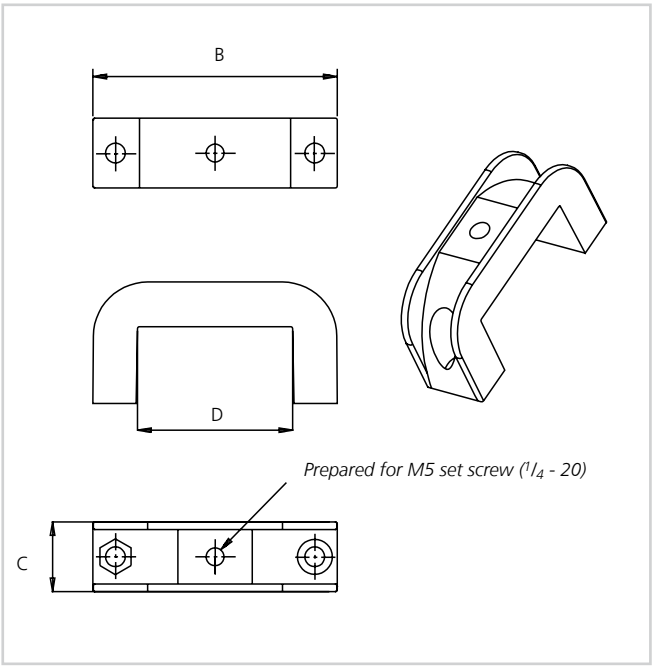
uni Retainer Rings™



uni Retainer Rings™

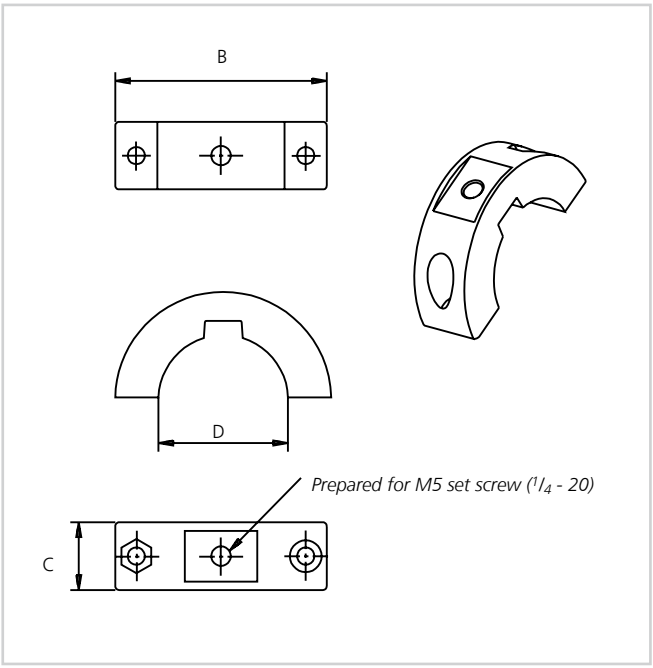
Dimension





uni Retainer Rings™ D	B		C		A*	
	mm	in.	mm	in.	mm	in.
ø20	39	1.5	14	0.6	ø39	ø1.5
ø25	44	1.7	14	0.6	ø44	ø1.7
ø30	50	2.0	16	0.6	ø50	ø2.0
ø40	63	2.5	18	0.7	ø63	ø2.5
ø50	75	3.0	18	0.7	ø75	ø3.0
■40 x 40 mm	63	2.5	18	0.7	ø80	ø3.1
■50 x 50 mm	80	3.1	18	0.7	ø103	ø4.1
■60 x 60 mm	95	3.7	18	0.7	ø124	ø4.9
ø1"	44	1.7	14	0.6	ø44	ø1.7
ø1.5"	63	2.5	18	0.7	ø63	ø2.5
ø2"	75	3.0	18	0.7	ø75	ø3.0
■1" x 1"	44	1.7	14	0.6	ø52	ø2.0
■1.5" x 1.5"	63	2.5	18	0.7	ø80	ø3.1
■2.5" x 2.5"	95	3.7	18	0.7	ø124	ø4.9

** Use sprocket sizes that ensure that the belt or chain do not conflict with uni Retainer Rings™*



uni Retainer Rings™	uni Reference no.	
	set of 4 rings	set of 20 rings
ø20	95PA6RD20MMB4	95PA6RD20MMB20
ø25	95PA6RD25MMB4	95PA6RD25MMB20
ø30	95PA6RD30MMB4	95PA6RD30MMB20
ø40	95PA6RD40MMB4	95PA6RD40MMB20
ø50	95PA6RD50MMB4	95PA6RD50MMB20
■40 x 40 mm	95PA6SQ40MMB4	95PA6SQ40MMB20
■50 x 50 mm	95PA6SQ50MMB4	95PA6SQ50MMB20
■60 x 60 mm	95PA6SQ60MMB4	95PA6SQ60MMB20
ø1"	95PA6RD10INCHB4	95PA6RD10INCHB20
ø1.5"	95PA6RD15INCHB4	95PA6RD15INCHB20
ø2"	95PA6RD20INCHB4	95PA6RD20INCHB20
■1" x 1"	95PA6SQ10INCHB4	95PA6SQ10INCHB20
■1.5" x 1.5"	95PA6SQ15INCHB4	95PA6SQ15INCHB20
■2.5" x 2.5"	95PA6SQ25INCHB4	95PA6SQ25INCHB20

** Set of 4 rings = 4 complete uni Retainer Rings (8 half rings, 8 screws and 8 nuts).*

Standard Material and Color

PA6-GF	B

Technical Data Sheet for Belt & Chain Applications | Metric

Company/Customer:
Contact person:
End user:

Technical Data

1. Industry:							
2. Application:							
3. Product type:							
4. Wrapping/Container:	☐ None	☐ Plastic containers	☐ Cardboard	☐ Shrink wrapped	☐ Flow pack	☐ Wood	
☐ Plastic trays	☐ Steel trays	☐ Glass	☐ Steel cans	☐ Alu cans	☐ Cross strapped	☐ Other:	
5. Item size (mm) L:	xW:	xH	or Ø:	xH:	Other:		
6. Product weight:	kg/item	kg/m	kg/m²				
7. Throughput:	items/min.	kg/min.	Speed	m/min.			
8. Length of conveyor C-C:	m	Length of belt/chain:	m	Width of belt:	m		
9. Start/stop operation:	☐ No (continuous drive)	☐ Yes, no. of stops per hour	☐ Product indexing				
10. Accumulation:	☐ No	☐ Full	☐ Partly length of accumulation:				
11. Min./max. operating temp.:	°C /	°C					
12. Is the conveyor lubricated?	☐ Yes, type:	☐ No					
13. Is the belt/chain exposed to any chemicals during operation?	☐ Yes, type:	☐ No					
14. Is the belt/chain exposed to any chemicals during cleaning?	☐ Yes, type:	☐ No					
15. Conveyor type:	☐ Belt or	☐ Chain	☐ Single row	☐ Parallel rows	No. of rows		
16. Layout (birdseye)	☐ Straight running	☐ Sideflexing					
17. Horizontal layout	☐ Straight	☐ Incline	☐ Decline- If in-/decline angle to horizontal:	°			
18. ☐ New conveyor	☐ Retrofit	Original belt/chain from:					
19. Belt type:	or chain type:						
20. Belt or chain pitch:	Belt or chain color:						
21. Belt or chain material:	☐ POM	☐ PP	☐ PE	☐ PA	☐ Hardened steel	☐ Stainless steel	☐ Other:
22. Pin material:	☐ Plastic	☐ PP	☐ PE	☐ PA	☐ Hardened steel	☐ Stainless steel	☐ Other:
23. Pin retention system:							

Technical Data Sheet for Belt/Chain Applications

24. Top accessories:	Spacing in travel direction:		Indent:	
25. Side accessories:		Indent from side:		
26. Bottom tabs (belt): Spacing in travel direction:		No of rows:	Position:	
27: Wearstrip material:	☐ SS ☐ PE HD 1000 ☐ PE HD500 ☐ Other			
28: Sprockets : Drive end:	Pitch diameter:	No. of teeth z=	per shaft	pcs
Idler end:	Pitch diameter:	No. of teeth z= (0 if non)	per shaft	pcs
29. Sprocket bore: Drive end:	☐ ● ☐ ● + keyway	☐ ■ dimension		
30. Form filled in by:		Date:		
31. Sketch of conveyor, stating travel direction and drive motor location				

Additional Data

Technical Data Sheet for Belt & Chain Applications | Imperial

Company/Customer:
Contact person:
End user:

Technical Data

1. Industry:							
2. Application:							
3. Product type:							
4. Wrapping/Container:	☐ None	☐ Plastic containers	☐ Cardboard	☐ Shrink wrapped	☐ Flow pack	☐ Wood	
☐ Plastic trays	☐ Steel trays	☐ Glass	☐ Steel cans	☐ Alu cans	☐ Cross strapped	☐ Other:	
5. Item size (in.) L:	xW:	xH	or Ø:	xH:	Other:		
6. Product weight:	lb/item	lb/ft	lb/ft²				
7. Throughput:	items/min.	lb/min.	Speed	ft/min.			
8. Length of conveyor C-C:	ft	Length of belt/chain:	ft	Width of belt:	ft		
9. Start/stop operation:	☐ No (continuous drive)	☐ Yes, no. of stops per hour	☐ Product indexing				
10. Accumulation:	☐ No	☐ Full	☐ Partly length of accumulation:				
11. Min./max. operating temp.:	°F /	°F					
12. Is the conveyor lubricated?	☐ Yes, type:	☐ No					
13. Is the belt/chain exposed to any chemicals during operation?	☐ Yes, type:	☐ No					
14. Is the belt/chain exposed to any chemicals during cleaning?	☐ Yes, type:	☐ No					
15. Conveyor type:	☐ Belt or	☐ Chain	☐ Single row	☐ Parallel rows	No. of rows		
16. Layout (birdseye)	☐ Straight running	☐ Sideflexing					
17. Horizontal layout	☐ Straight	☐ Incline	☐ Decline- If in-/decline angle to horizontal:	°			
18. ☐ New conveyor	☐ Retrofit	Original belt/chain from:					
19. Belt type:	or chain type:						
20. Belt or chain pitch:	Belt or chain color:						
21. Belt or chain material:	☐ POM	☐ PP	☐ PE	☐ PA	☐ Hardened steel	☐ Stainless steel	☐ Other:
22. Pin material:	☐ Plastic	☐ PP	☐ PE	☐ PA	☐ Hardened steel	☐ Stainless steel	☐ Other:
23. Pin retention system:							

Technical Data Sheet for Belt/Chain Applications

24. Top accessories:	Spacing in travel direction:		Indent:	
25. Side accessories:		Indent from side:		
26. Bottom tabs (belt): Spacing in travel direction:		No of rows:	Position:	
27: Wearstrip material:	☐ SS ☐ PE HD 1000 ☐ PE HD500 ☐ Other			
28: Sprockets : Drive end:	Pitch diameter:	No. of teeth z=	per shaft	pcs
Idler end:	Pitch diameter:	No. of teeth z= (0 if non)	per shaft	pcs
29. Sprocket bore: Drive end:	☐ ● ☐ ● + keyway	☐ ■ dimension		
30. Form filled in by:		Date:		
31. Sketch of conveyor, stating travel direction and drive motor location				

Additional Data

Disclaimer

Ammeraal Beltech Modular A/S provides this catalog as a service and for information purposes only. The material and contents are provided without warranty of any kind. This catalog is not intended to be used as a substitute for advice from our engineers and our official guidelines. While we attempt to maintain the information in this catalog as accurately as possible, it may contain errors or omissions for which we deny any liability.

Ammeraal Beltech Modular A/S 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. Ammeraal Beltech Modular A/S cannot be held responsible for the incorrect application, operation and/or abuse of our products.

Ammeraal Beltech Modular A/S 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 equipped with plastic chains or belts.

Personal Protection
Always use safety glasses when installing 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 ultraviolet 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 Ammeraal Beltech Modular A/S.

Note: The different materials have different temperature limits. Care should be taken with high chain/belt speeds at which friction can lead to heating and subsequently melting of chain/belt as well as wearstrips. Do not exceed speeds recommended by Ammeraal Beltech Modular A/S. 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. Ammeraal Beltech Modular A/S can also supply safety chains and sideflexing belts which leave minimal gaps when turning through curves making them safer than regular chains.

Patents

uni-chains develops and manufactures products under a dynamic intellectual property portfolio. Products may be protected by one or more patents, utility models, designs or trademarks. A regularly updated list of all publicly available rights is published on our homepage www.unichains.com. At time of print products in this catalog are protected by one or more of the following rights:

US D509,038 S
US D503,841 S
US D502,585 S
US 6,857,517 B2
US 6,758,329
US 6,662,938
DE/EP 0931736
DK/EP 0931736
IT/EP 0931736
NL/EP 0931736
US 6,073,756
US 6,216,854
DK 174527
GB 2352220
IT 1320239
US 6,390,288
US 6,412,625
US 5,482,156
US 5,305,869

US 5,027,944
US 5,127,515
US 5,307,923
US 5,379,883
US 5,697,492
DE 69109610
FR/EP 0480863
GB/EP 0480863
IT/EP 0480863
DE 4312864
GB 2309062
DE 69506772
FR/EP 0680898
GB/EP 0680898
IT/EP 0680898
NL/EP 0680898
SE/EP 0680898
MR 1995 00926
EP 1655242

EP 1306323
EP1445216
DE 10200604437
US 6857517
PCT/DK2007/000201

Trade Marks

Ammeraal Beltech Modular A/S is in possession of the following registered trade marks:

uni-chains®

Single Link®

Snap Link®

Quality Assurance System

The quality assurance system of Ammeraal Beltech Modular A/S is certified accoring to ISO 9001.

Austria
Ammeraal Beltech GmbH
T +43 (0) 1 71 72 8 133
F +43 (0) 1 71 72 8 110
sales@ammeraalbeltech.de

Belgium
Ammeraal Beltech N.V.
T +32 2466 0300
F +32 2466 4272
salesgb@ammeraal-beltech.be

Canada
Ammeraal Beltech Modular, Inc.
T +1 610 372 1800
F +1 610 372 3590
sales@unichains.com

Chile
Ammeraal Beltech Chile S.A.
T +56 2331 2900
F +56 2331 2912
enriqueparada@ammeraalbeltech.cl

China
Ammeraal Beltech (Suzhou) Co., Ltd.
T +86 (0)512 8287 2709
F +86 (0)512 8287 2711
info@ammeraalbeltech.com.cn

Czech Republic
Ammeraal Beltech s.r.o.
T +420 567 563 631
F +420 567 330 637
prodej@ammeraalbeltech.cz

Denmark
Ammeraal Beltech Modular A/S
T +45 7572 3100
F +45 7572 3348
salesnordic@unichains.dk

Finland
Ammeraal Beltech Oy
T +358 207 911 400
F +358 207 911 450
info@ammeraalbeltech.fi

France
Ammeraal Beltech S.A.S.
T +33 3 2090 4313
F +33 3 2090 6011
unichains@ammeraalbeltech.fr

Germany
Ammeraal Beltech Modular GmbH
T +49 5971 91437 0
F +49 5971 91547 5
admin@unichains.de

Hungary
Ammeraal Beltech Lörincz Ltd.
T +36 2342 7510
F +36 2342 7511
info@ammeraalbeltech.hu

India
Ammeraal Beltech (India) Pvt Limited
T +91-44-26534244
F +91-44-26534388
info@ammeraalbeltech.net.in

Ireland
Ammeraal Beltech Ireland
T +44 121 559 0377
F +44 121 559 0373
admin@unichains.co.uk

Italy
uni-chains italia s.r.l.
T +39 0522 922470
F +39 0522 922508
unichains@unichains.it

Luxembourg
Ammeraal Beltech S.a.r.l.
T +352 2648 3856
F +352 2648 3857
sales@ammeraal-beltech.lu

Malaysia
Ammeraal Beltech Sdn. Bhd.
T +60 3 8061 8849
F +60 3 8061 8935
sales.kl@ammeraalbeltech.my

Netherlands
Ammeraal Beltech B.V.
T +31 72 575 1212
F +31 72 574 3364
info@ammeraalbeltech.nl

Norway
Ammeraal Beltech Modular NO
T +47 2220 2699
F +45 7572 3348
salesnordic@unichains.com

Portugal
Ammeraal Beltech S.A.
T +351 22 947 9440
F +351 22 941 3081
geral@ammeraalbeltech.pt

Russia
O.O.O. Ammeraal
T +07 495 234 2357
F +07 495 234 8803
ammeraal@mtu-net.ru

Singapore
Ammeraal Beltech Pte Ltd.
T: +65 6273 9767
F: +65 6273 5490
sales@ammeraalbeltech.sg

Slovakia
Ammeraal Beltech s.r.o.
T: +421 2 5564 8541
F: +421 2 5564 8543
predaj@ammeraalbeltech.sk

South Korea
Ammeraal Beltech Co. Ltd.
T: +82 31 448 3613 7
F: +82 31 448 3618
amel@ammeraalbeltech.co.kr

Spain
Ammeraal Beltech S.A.
T: +34 961 2186 38
F: +34 961 2186 39
cem@ammeraalbeltech.es

Sweden
Ammeraal Beltech AB
T +46 44 43015
F +46 44 43349
info@ammeraal-beltech.se

Switzerland
Ammeraal Beltech AG
T +41 55 2253 535
F +41 55 2253 636
info@ammeraal-beltech.ch

Thailand
Ammeraal Beltech Co. Ltd
T +66 2902 2604
F +66 2902 0422
sales@ammeraalbeltech.th.com

Ukraine
ABSC Ukraine Ltd.
T +380 563 723211
F +380 563 713100
ammeraal@ukr.net

United Kingdom
Ammeraal Beltech UK
T +44 121 559 0377
F +44 121 559 0373
modular@ammeraalbeltech.co.uk

United States
Ammeraal Beltech Modular, Inc.
T +01 610 372 1800
F +01 610 372 3590
sales@unichains.com

Vietnam
Ammeraal Beltech Vietnam Co. Ltd
T +84 913 90 22 51
dmh@ammeraalbeltech.com.vn

www.unichains.com

Solid advice
For all your belting needs
Local stock & service
www.ammeraalbeltech.com

Ammeraal Beltech Modular A/S
Hjulmagervej 21
DK-7100 Vejle

T +45 75723100
F +45 75723348
admin@unichains.com
www.unichains.com