



uni-chains

BELT CATALOG

belt systems

Patents

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US D509,038 S	US 5,027,944
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US D502,585 S	US 5,307,923
US 6,857,517 B2	US 5,379,883
US 6,758,329	US 5,697,492
US 6,662,938	DE 69109610
DE/EP 0931736	FR/EP 0480863
DK/EP 0931736	GB/EP 0480863
IT/EP 0931736	IT/EP 0480863
NL/EP 0931736	DE 4312864
US 6,073,756	GB 2309062
US 6,216,854	DE 69506772
DK 174527	FR/EP 0680898
GB 2352220	GB/EP 0680898
IT 1320239	IT/EP 0680898
US 6,390,288	NL/EP 0680898
US 6,412,625	SE/EP 0680898
US 5,482,156	MR 1995 00926
US 5,305,869	

Trade Marks

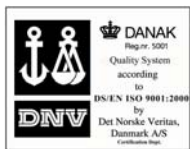
uni-chains A/S is in possession of the following registered trade marks:

uni-chains®

Single Link®

Snap Link®

Quality Assurance System



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

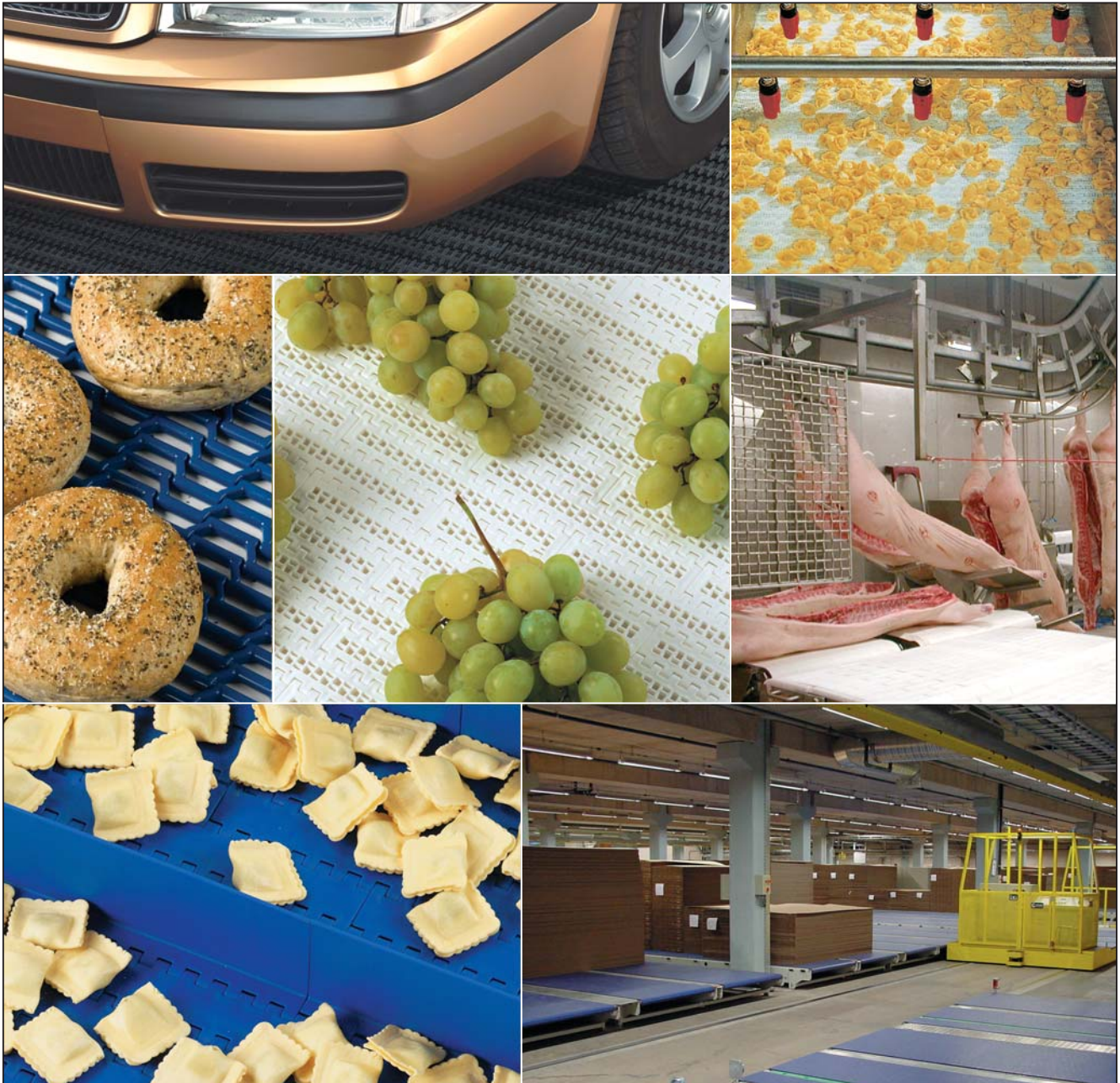
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uni-chains® Belt Catalog

Innovative belt solutions for all applications and industries from uni-chains®.



www.unichains.com

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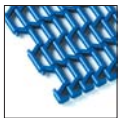
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uni M-PNB M1 Snap Link® 14

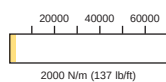
Pitch = 12.7 mm (0.50 in.)

Straight running

Standard



Strength Index (POM)



uni M-QNB 18

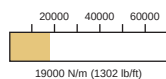
Pitch = 12.7 mm (0.50 in.)

Straight running

Standard



Strength Index (POM)

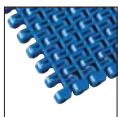


uni M-SNB M3 22

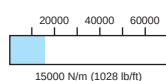
Pitch = 12.7 mm (0.50 in.)

Straight running

Standard



Strength Index (POM)



uni Light 26

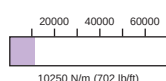
Pitch = 19.05 mm (0.75 in.)

Straight running

Standard



Strength Index (POM)



uni S-MPB Single Link® 32

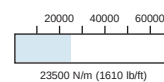
Pitch = 25.4 mm (1.00 in.)

Straight running

Standard



Strength Index (POM)

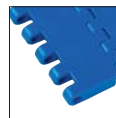


uni QNB 36

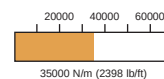
Pitch = 25.4 mm (1.00 in.)

Straight running

Standard



Strength Index (POM)



uni CNB 41

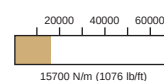
Pitch = 25.4 mm (1.00 in.)

Straight running

Standard



Strength Index (POM)

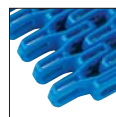


uni Flex SNB 46

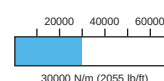
Pitch = 25.4 mm (1.00 in.)

Side flexing

Standard



Strength Index (POM)



uni SNB M2

56

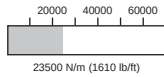
Pitch = 25.4 mm (1.00 in.)

Straight running

Standard



Strength Index (POM)



uni Flex ONE

62

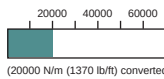
Pitch = 38.1 mm (1.50 in.)

Side flexing

Standard



Strength Index (POM)



uni SSB

69

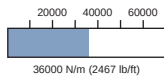
Pitch = 38.1 mm (1.50 in.)

Straight running

Standard US



Strength Index (POM)



uni Light EP

73

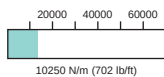
Pitch = 38.1 mm (1.50 in.)

Straight running

Standard



Strength Index (POM)



uni L-SNB

77

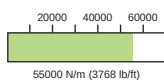
Pitch = 50.0 mm (1.97 in.)

Straight running

Standard



Strength Index (POM)



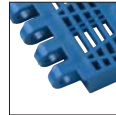
uni OPB

82

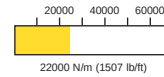
Pitch = 50.0 mm (1.97 in.)

Straight running

Standard



Strength Index (POM)



uni CPB

88

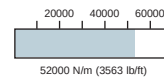
Pitch = 50.8 mm (2.00 in.)

Straight running

Standard



Strength Index (POM)



uni MPB

93

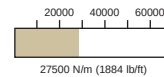
Pitch = 50.8 mm (2.00 in.)

Straight running

Standard



Strength Index (POM)



uni X-MPB

102

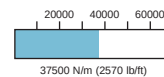
Pitch = 63.5 mm (2.50 in.)

Straight running

Standard



Strength Index (POM)



uni XLB

106

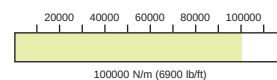
Pitch = 63.5 mm (2.50 in.)

Straight running

Standard



Strength Index (POM)



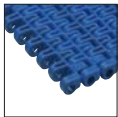
uni M-SNB M2

111

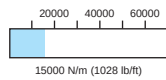
Pitch = 12.7 mm (0.50 in.)

Straight running

Made-To-Order



Strength Index (POM)



uni Light

112

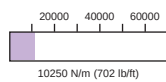
Pitch = 19.1 mm (0.75 in.)

Straight running

Made-To-Order



Strength Index (POM)



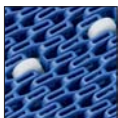
uni Flex SNB

115

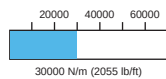
Pitch = 25.4 mm (1.00 in.)

Side flexing

Made-To-Order



Strength Index (POM)



uni SNB M2

116

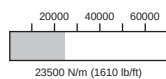
Pitch = 25.4 mm (1.00 in.)

Straight running

Made-To-Order



Strength Index (POM)



uni Light EP

117

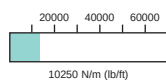
Pitch = 38.1 mm (1.50 in.)

Straight running

Made-To-Order



Strength Index (POM)



uni SSB

122

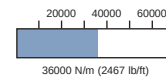
Pitch = 38.1 mm (1.50 in.)

Straight running

Made-To-Order



Strength Index (POM)



uni OPB

123

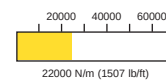
Pitch = 50.0 mm (1.97 in.)

Straight running

Made-To-Order



Strength Index (POM)



uni CPB

128

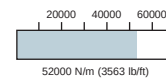
Pitch = 50.8 mm (2.00 in.)

Straight running

Made-To-Order



Strength Index (POM)



uni Retainer Rings

129



Application Data sheet (Metric)

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Application Data sheet (Imperial)

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Sales Organization

Back cover

Legend

Fold-out
flap on
the front
cover

uni Belt Material Selection

Material Grades	Temperature range		Load	FDA
	°C	°F	Permissible load index	
POM - Polyoxymethylen ^{4/}	-40 to +90	-40 to +194	100% POM	✓
POM-DK - Polyoxymethylen	-40 to +90	-40 to +194	100% POM	-
POM-AS/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 ^{2/ 3/}	+1 to +104	+34 to +219	100% PP	✓
PP-I - Polypropylene	-10 to +80	+14 to +176	80% PP	✓
PPMI - Metal detectable polypropylene	-10 to +80	+14 to +176	70% PP	✓
PPHW - Hot water polypropylene	+1 to +104	+34 to +219	100% PP	✓
PE - Polyethylene	-50 to +80	-58 to +176	100% PE	✓
PEMI - Metal detectable polyethylene	-50 to +80	-58 to +176	80% PE	✓
GR - Glass reinforced polyester ^{1/}	-40 to +125	-40 to +257	70% POM	-
AR - Glass reinforced polypropylene	+1 to +80	+33 to +176	50% POM	-
FR - Flame Retardant Polyamide	+1 to +104	+34 to +219	90% POM	-
PVDF - Polyvinylidenefluoride	-40 to +100	-40 to +212	100% 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	✓
PA6.6H - Polyamide	-40 to +160	-40 to +320	100% POM	-

^{1/} Max temperature in water +60°C (+140°F).

^{2/} Avoid impact below +8°C (+46°F).

^{3/} Dry. Wet and hot applications use PPHW.

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

^{4/} POM-D/DI/LF/SLF/NL/S/SX

POM - Polyoxymethylen

POM is a thermoplastic material with very good mechanical and thermal properties. The material can also be characterized 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

POM polymers with self-lubricating components.

Color options:



POM-DI

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

Color options:



POM-DK

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 side flexing belt or in applications where very high wear resistance is required.

Color options:



POM-LF

POM polymers with improved self-lubricating components.

Color options:



uni Belt Material Selection

POM-SLF

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

Color options:



POM-NL

POM polymers with no lubricant that can be used 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 1×10^{14} Ohm according to IEC 60093/ASTM D257.

Color options:



POM-AS - Semi conductive materials

Semi conductive POM with self-lubricating components is used in applications where you want to avoid build-up of static electricity. POM-AS 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-AS holds a surface resistivity of 1×10^{11} Ohm according to IEC 60093/ASTM D257.

Color options:



POM-NLAS

POM polymers which contains no lubricant and contains additives that reduce the electrical resistance, thereby helping to dissipate static electricity.

POM-NLAS holds a surface resistivity of 1×10^{11} Ohm according to IEC 60093/ASTM D257.

Color options:



POM-S

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

Color options:



POM-SX

POM polymers with self-lubricating components.

POM-SX will be the right solution where the demand is lower friction, higher load and lower noise compared to standard POM. POM-SX will mainly be used for high load capacity uni Snap Link® without pins.

Color options:



POM-EC - Electrical conductive materials

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 1×10^6 Ohm according to IEC 60093/ASTM D257.

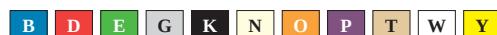
Color options:



PP - Polypropylene

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

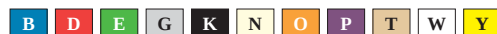
Color options:



PP-I

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

Color options:



uni Belt Material Selection

Metal detectable polypropylene – PPMI

PPMI 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. PPMI 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.

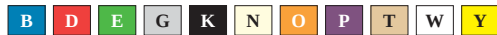
Color options:



PPHW - Hot water polypropylene

PPHW 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.

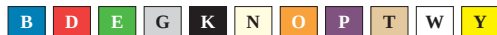
Color options:



PE - Polyethylene

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

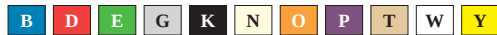
Color options:



PE-I

PE with improved impact resistance.

Color options:



PEMI - Metal detectable polyethylene

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

Color options:



GR - Glass Reinforced Polyester

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

Color options:



AR - Glass Reinforced Polypropylene

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.

Color options:



FR - Flame Retardant Polyamide

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

Color options:



PVDF - Polyvinylidenefluoride

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

Color options:



uni Belt Material Selection

PA6 - Polyamide

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

Color options:



PA6-GF - Polyamide Glass Reinforced

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

Color options:



PA6.6 - Polyamide

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.

Color options:



PA6.6-H

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.

Color options:



UV - Ultraviolet stabilizer

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 to avoid destruction thereof. 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.

uni Pin Material Selection

SS304

Austenitic Stainless Steel

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 Pin Material Selection

SS316 Austenitic Stainless Steel

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 particularly in chloride containing environments.

PP - Polypropylene

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

PE - Polyethylene

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

PA6.6 - Polyamide

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.

GR - Glass Reinforced Polyester

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

uni Reinforcement Material Selection

SS316 Austenitic Stainless Steel

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 particularly in chloride containing environments.

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
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



Approvals

FDA (US Food and Drug Administration)

US Federal Agency that approves materials for use with food contact.

uni-chains® uses FDA approved materials of the following types:

- POM-D, POM-DI, POM-LF, POM-SLF, POM-NL and POM-S
- PP, PP-I, PPMI, PPHW
- PE, PE-I, PEMI
- PVDF
- PA6, PA6.6
- UV additive

USDA (US Department of Agriculture)

USDA evaluates and accepts products and equipment for use in the dairy, meat, and poultry industries.

uni-chains belting products listed on this page are listed 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)

All the above plus uni Light.

USDA Dairy Accepted

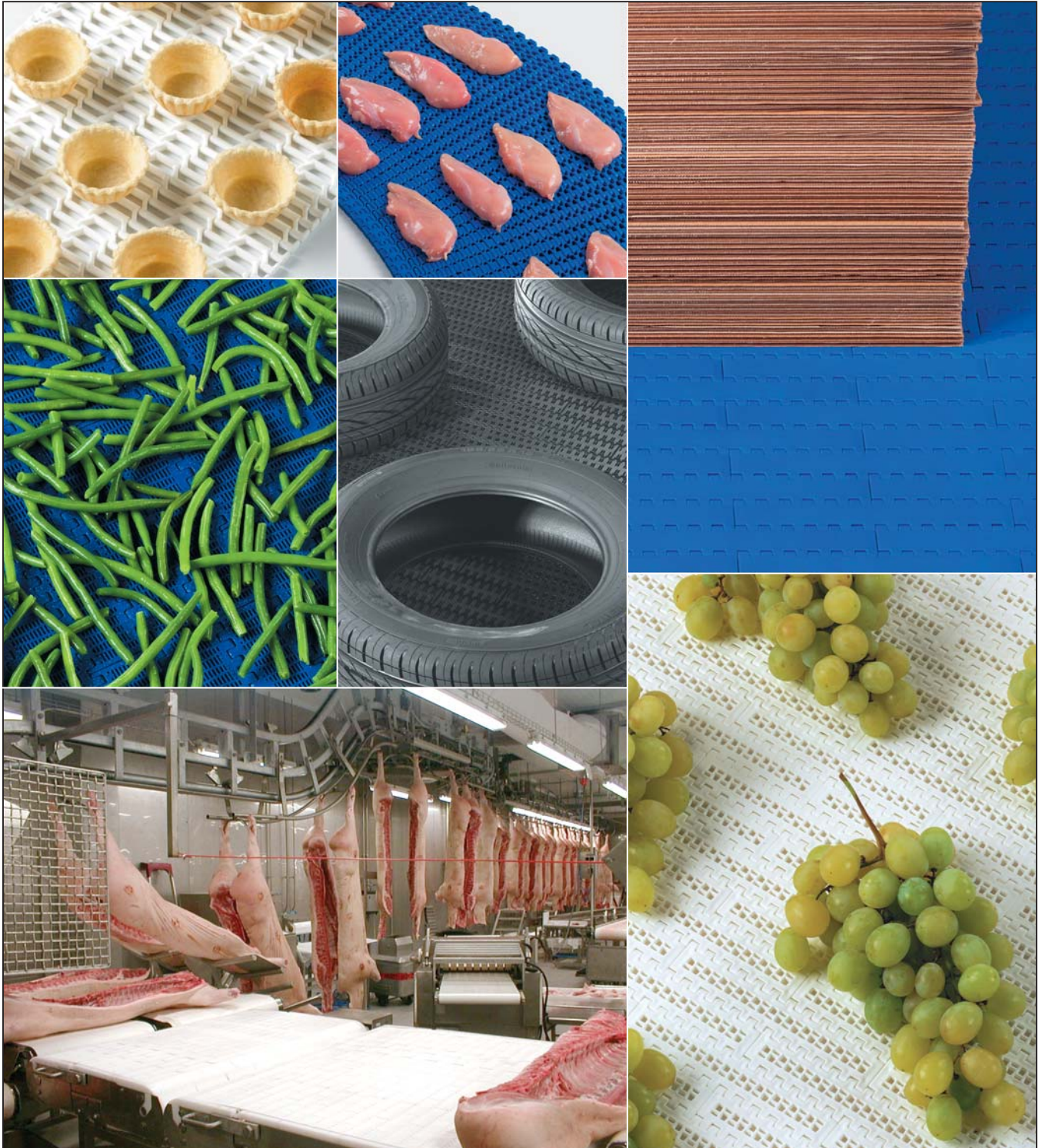
- uni MPB, uni MPB-G, uni MPB-GE, uni MPB-N, uni MPB-NE, uni MPB 18%, uni MPB 20%, uni MPB 22%
- uni CNB C, uni CNB 18%, uni CNB 22%

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.

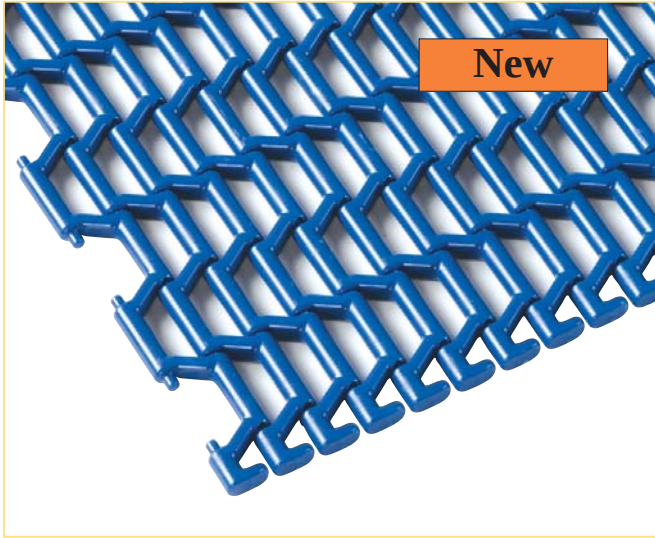
The acceptance covers the following products:

- uni MPB Single Link® and bricklaid belts
- uni MPB Product Supports and Side Guards
- uni MPB Sprockets

Standard Modular Belt Range



Pitch 12.7 mm (0.50 in.)



uni M-PNB M1 – a new pinless design belt

This new pinless design is an exclusive uni-chains® 0.5 in. pitch belt including the new Snap Link® feature. An open belt with no pin makes assembly and disassembly an exceptionally simple operation. The design of Mini PNB (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.

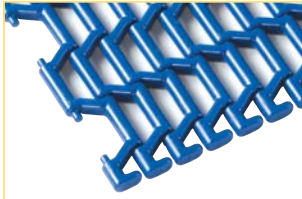
The uni M-PNB M1 belt with its unique features is the perfect belt in the following industries/applications:

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

Product features and operational Benefits:

- Easy to clean – reduced downtime for cleaning
- Small transfer – nose bar applications
- Snap Link® feature reduces maintenance and downtime
- Snap Link® feature eliminates pin walking and pins coming out
- Snap Link® feature increases belt weight consistency

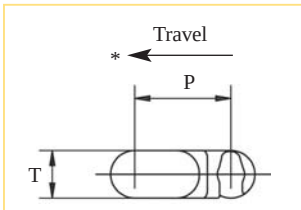
Standard Selection



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

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



Straight running



12.7 mm (0.50 in.)



Patent

Patent pending



Materials

See page 7 and 8



12.5 mm (0.49 in.)



See page 17



See page 129

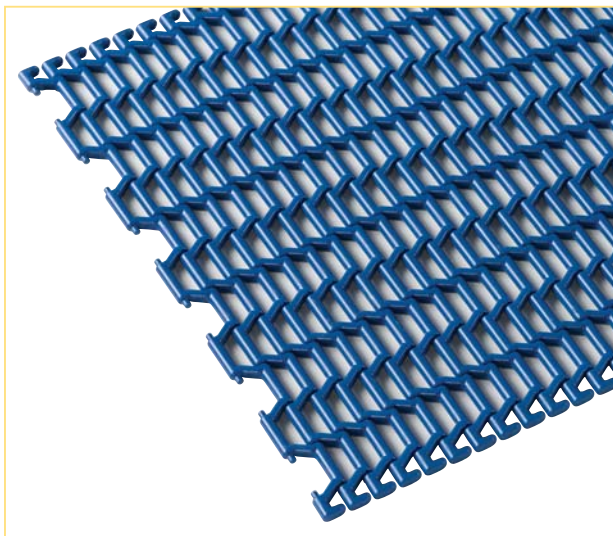
Standard Materials and Colors

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

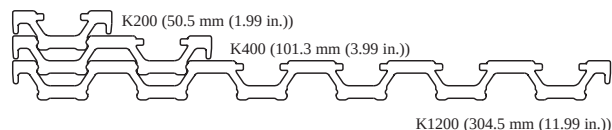
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni M-PNB M1 Single Link®



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



Belt Weights

Belt material	POM	
	kg/m ²	lb/ft ²
uni M-PNB M1	4.5	0.92

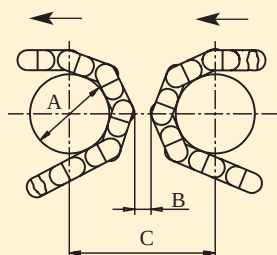
Permissible Tensile Strength

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

* Please note: strength reduction if:

- non-compliance with recommended sprocket distance
- use of nosebar

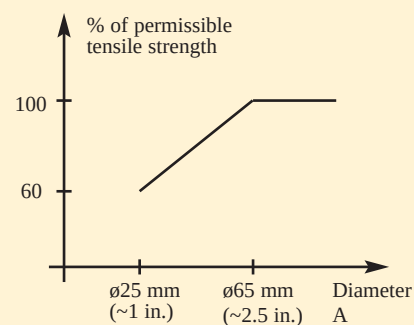
Nosebars



Min. dimensions

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

Reduction of strength



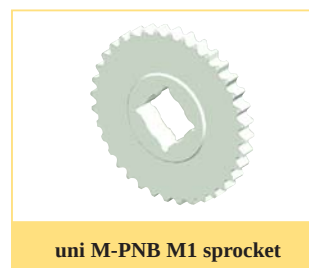
Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Reference no. plastic
	mm	in.	mm	in.	mm	in.	
8	33.2	1.31	34.0	1.34	25.0	0.98	8333MPNB08N
10	41.1	1.62	42.4	1.67	30.0	1.18	8333MPNB10N
14	57.1	2.25	59.0	2.32	45.0	1.77	8333MPNB14N
17	69.1	2.72	71.3	2.81	55.0	2.17	8333MPNB17N
19	77.2	3.04	79.5	3.13	65.0	2.56	8333MPNB19N
24	97.3	3.83	99.8	3.93	75.0	2.95	8333MPNB24N
28	113.4	4.46	116.1	4.57	75.0	2.95	8333MPNB28N
					96.0*	3.78*	8333MPNB28NBB*
36	145.7	5.74	148.5	5.85	75.0	2.95	8333MPNB36N
					120.0*	4.72*	8333MPNB36NBB*

* BB = Big boss.

No. of teeth	Max. round bore		Max. square bore		Bore + keyway	
						
	mm	in.	mm	in.	mm	in.
8	20.0	0.79	15.0	0.59	16.0	0.63
10	25.0	0.98	15.0	0.59	20.0	0.79
14	40.0	1.57	25.4	1.00	35.0	1.38
17	50.0	1.97	30.0	1.18	40.0	1.57
19	60.0	2.36	40.0	1.57	50.8	2.00
24	70.0	2.76	45.0	1.77	60.0	2.36
28	70.0	2.76	45.0	1.77	60.0	2.36
	90.0*	3.54*	60.0*	2.36*	80.0*	3.15*
36	70.0	2.76	45.0	1.77	60.0	2.36
	115.0*	4.53*	76.2*	3.00*	100.0*	3.94*

* BB = Big boss.



Width of sprockets: 20.0 mm (0.79 in.)

Tooth width: 12.0 mm (0.47 in.)

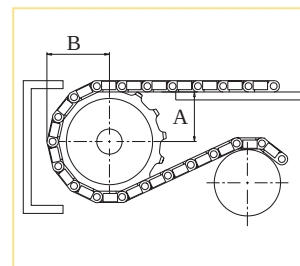
Standard Material and Color

PA6

N

Placement of Wearstrips and Sprockets

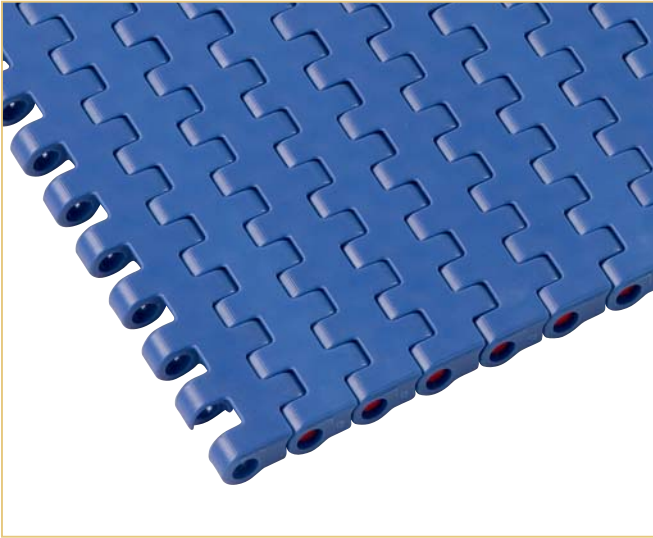
No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
8	20.2	0.80	12.2	0.48
10	24.0	0.94	16.4	0.65
14	31.9	1.26	24.6	0.97
17	37.9	1.49	30.8	1.21
19	41.9	1.65	35.9	1.37
24	52.0	2.05	45.1	1.78
28	60.0	2.36	53.2	2.09
36	76.1	3.00	69.4	2.73



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

Please contact uni-chains® for further information.

Pitch 12.7 mm (0.50 in.)



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

The uni Mini QNB (uni M-QNB) is a belt 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 nose bar and high speed applications due to the rounded bottom surface.

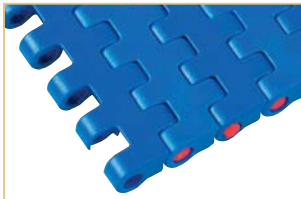
The uni M-QNB belt increases performance in the following industries/applications:

- 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 locking system (lockpin) for easy maintenance
- Unique sprocket engagement reduces pulsation
- Unique Rubber Top eliminates wear and increases friction in incline or acceleration applications

Standard Selection



uni M-QNB C



uni M-QNB Rubber Top



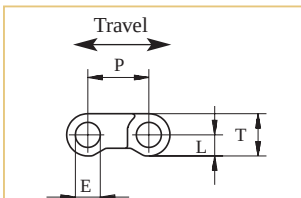
uni M-QNB Rubber Top



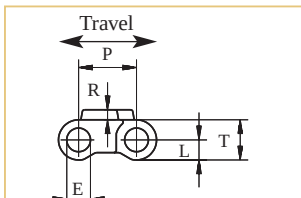
uni M-QNB Vacuum

Vacuum holes: $\varnothing 3.2$ mm (0.12 in.)

Dimensional Sketches



uni M-QNB, Vacuum



uni M-QNB Rubber Top

Dimensions

	mm	in.
E	5.1	0.20
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.)



Patent pending



See page 7 and 8



20 mm (0.8 in.)



See page 21



See page 129



03 **K** **N** See page 11

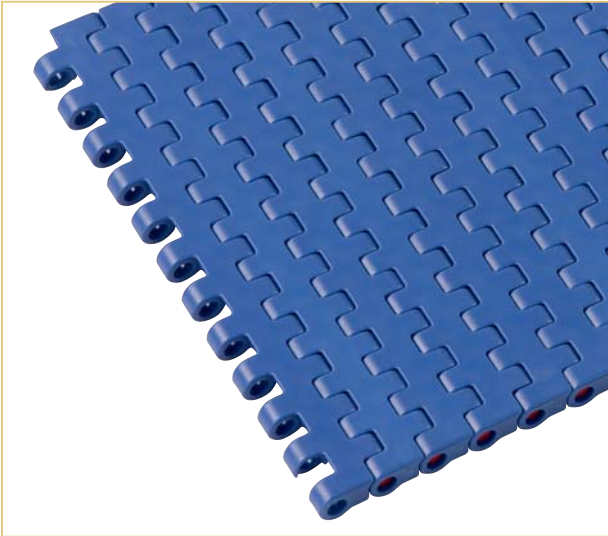
Standard Materials and Colors

Type	Standard materials and colors	Pins	
		Materials and colors	
uni M-QNB C	POM-SLF B	PA6.6	D
	PP W	PA6.6	N
	PP G	PA6.6	D
	PE N	PA6.6	N
uni M-QNB Rubber Top	POM-EC K	PA6.6	D
	PP G + 03 K	PA6.6	D
	PP W + 03 N	PA6.6	N
uni M-QNB Vacuum	PP G	PA6.6	D

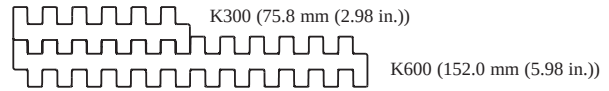
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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	-	-

uni M-QNB Single Link®



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



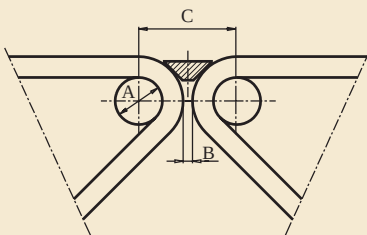
Belt Weights

Belt material	POM		PP		PE		EC	
Pin material	PA6.6		PA6.6		PA6.6		PA6.6	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni M-QNB	8.2	1.68	6.1	1.25	5.9	1.21	7.5	1.54
uni M-QNB Rubber Top	-	-	6.3	1.29	-	-	-	-

Permissible Tensile Strength

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

Nosebars



Min. dimensions

	mm	in.
A min.	20.0	0.79
B min.	4.0	0.16
C min.	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	41.8	1.65	41.5	1.63	28.0	1.10	ø10.0/18.0*	ø0.39/0.71*	2233MSNB210N
19	78.5	3.09	79.0	3.11	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	2233MSNB219N
							sq 25.4	sq 1.00	2233MSNB219N10INSQ
							sq 38.1	sq 1.50	2233MSNB219N15INSQ
							sq 40.0	sq 1.57	2233MSNB219N40MMSQ
28	115.4	4.54	116.2	4.57	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	2233MSNB228N
							sq 38.1	sq 1.50	2233MSNB228N15INSQ
							sq 40.0	sq 1.57	2233MSNB228N40MMSQ
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76*	2233MSNB228NBB
38	156.4	6.16	157.4	6.20	75.0	2.95	ø19.1/40.0*	ø0.75/1.57*	2233MSNB238N
							sq 38.1	sq 1.50	2233MSNB238N15INSQ
							sq 40.0	sq 1.57	2233MSNB238N40MMSQ
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76*	2233MSNB238NBB

* Minimum/maximum round bore.



uni M-QNB sprocket

Width of sprockets: 20.0 mm (0.79 in.)

Tooth width: 7.0 mm (0.28 in.)

Standard Material and Color

PA6

N

Max. Load per Sprocket

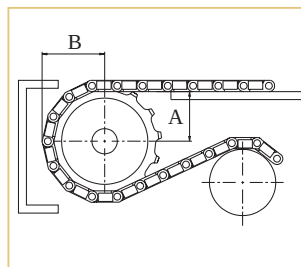
Belt material	POM		PP	
	N	lb	N	lb
uni M-QNB	1000	225	800	180

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

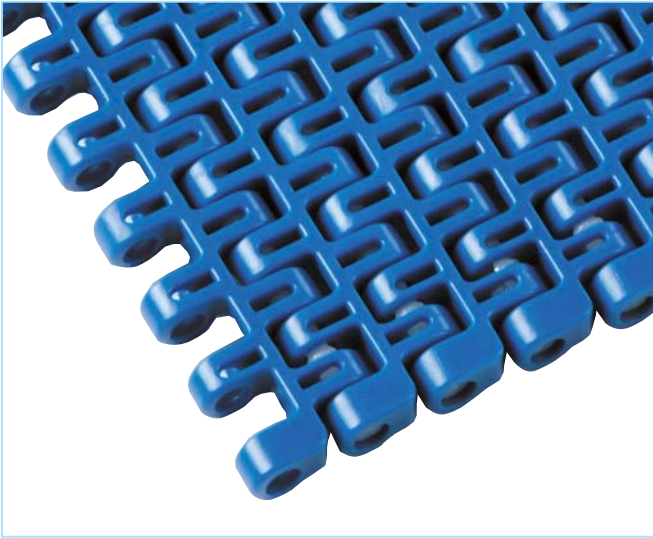
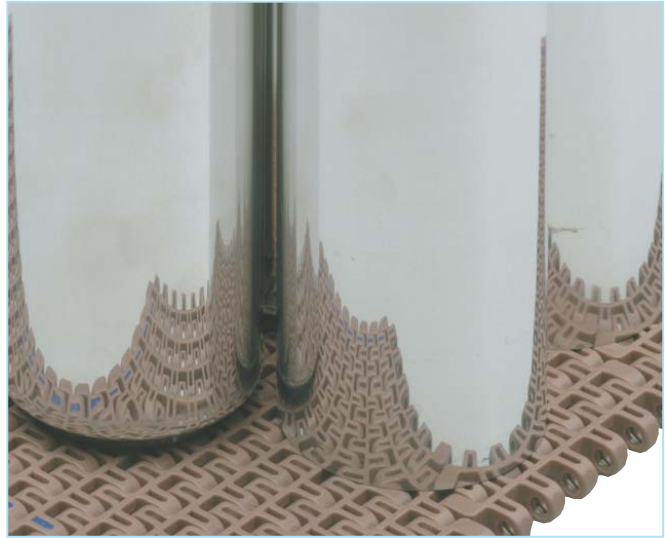
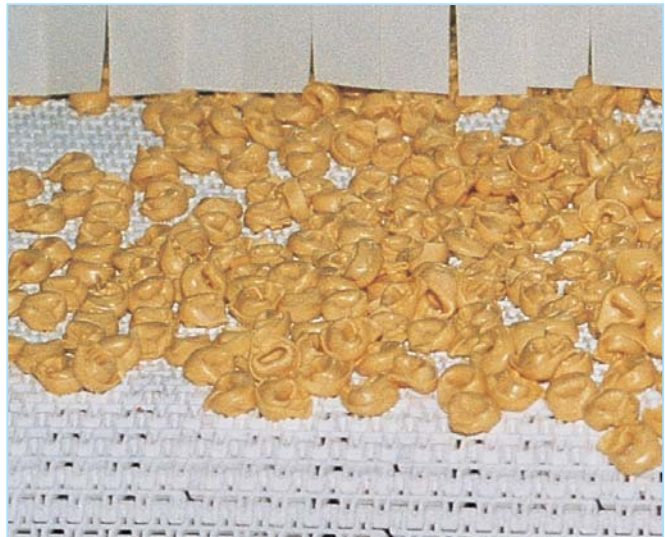
Please contact uni-chains® for further information.

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



Pitch 12.7 mm (0.50 in.)



uni M-SNB M3 – strong and small pitch belt

The uni Mini SNB M3 (uni M-SNB M3) is a belt 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 nose bar and high speed applications due to the rounded bottom surface.

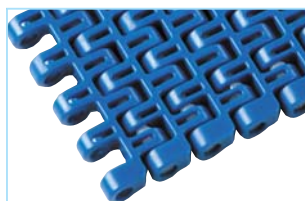
The uni M-SNB M3 belt increases performance in the following industries/applications:

- 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 locking system (lockpin) for easy maintenance
- Unique sprocket engagement reduces pulsation
- Open (flat) top surface increases product stability and reduces back line pressure

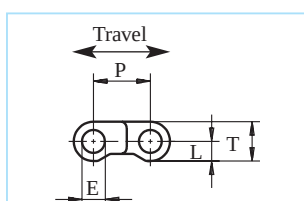
Standard Selection



uni M-SNB M3

Surface opening 14%

Dimensional Sketch



uni M-SNB M3

Dimensions

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



Straight running



12.7 mm (0.50 in.)



Patented



See page 7 and 8



20 mm (0.8 in.)



See page 25



See page 129



01 **N** See page 11

Alternatives



PE **W**

PA6.6 **B** **SS304**



PA6.6 **N**



PP **B** **W**

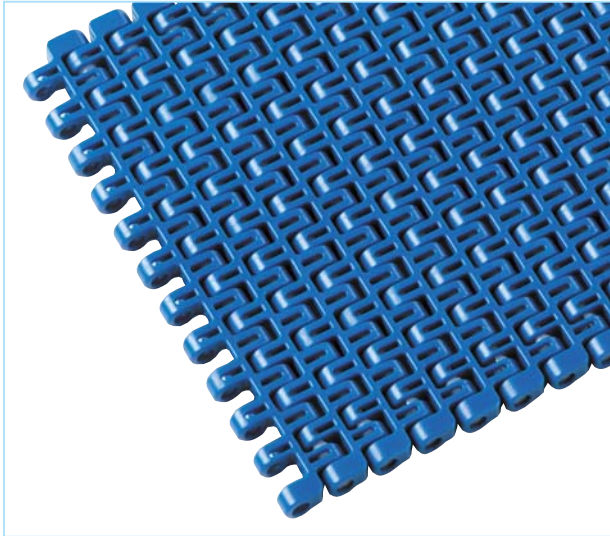
Standard Materials and Colors

Type	Standard materials and colors	Standard pins
		Materials and colors
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

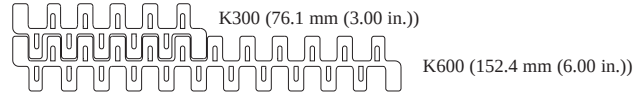
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni M-SNB M3 Single Link®



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



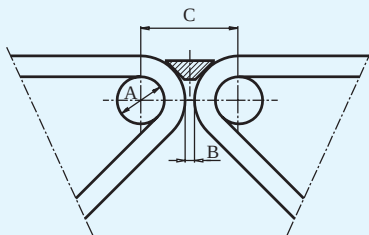
Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni M-SNB M3	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		PP		PE	
	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft
uni M-SNB M3	15000	1028	7500	514	4500	308

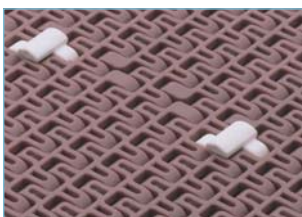
Nosebars



Min. dimensions

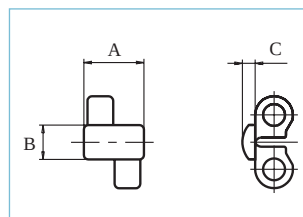
	mm	in.
A min.	20.0	0.79
B min.	4.0	0.16
C min.	41.6	1.64

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 pattern on belt surface per customer's 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	41.8	1.65	41.5	1.63	28.0	1.10	ø10.0/18.0*	ø0.39/0.71*	2233MSNB210N
19	78.5	3.09	79.0	3.11	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	2233MSNB219N
							sq 25.4	sq 1.00	2233MSNB219N10INSQ
							sq 38.1	sq 1.50	2233MSNB219N15INSQ
							sq 40.0	sq 1.57	2233MSNB219N40MMSQ
28	115.4	4.54	116.2	4.57	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	2233MSNB228N
							sq 38.1	sq 1.50	2233MSNB228N15INSQ
							sq 40.0	sq 1.57	2233MSNB228N40MMSQ
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76*	2233MSNB228NBB
38	156.4	6.16	157.4	6.20	75.0	2.95	ø19.1/40.0*	ø0.75/1.57*	2233MSNB238N
							sq 38.1	sq 1.50	2233MSNB238N15INSQ
							sq 40.0	sq 1.57	2233MSNB238N40MMSQ
					100.0	3.94	ø40.0/70.0*	ø1.57/2.76*	2233MSNB238NBB

* Minimum/maximum round bore.



uni M-SNB M3 sprocket

Width of sprockets: 20.0 mm (0.79 in.)

Tooth width: 7.0 mm (0.28 in.)

Standard Material and Color

PA6

N

Max. Load per Sprocket

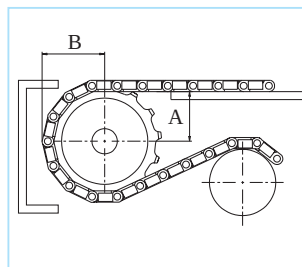
Belt material	POM		PP	
	N	lb	N	lb
uni M-SNB M3	1000	225	800	180

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

Please contact uni-chains® for further information.

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



Pitch 19.1 mm (0.75 in.)



uni Light – unique belt for light duty applications

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

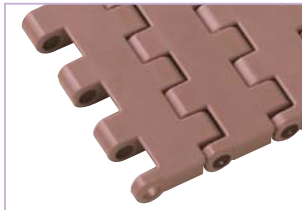
The uni Light (Closed and Open Surface) belts have increased performance in the following industries/applications:

- 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 including takeaway and incline conveyors
- 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 locking system (lockpin)
- 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

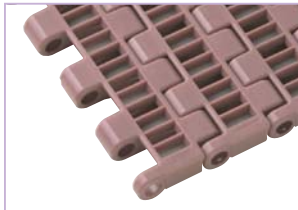
Standard Selection



uni Light C



uni Light 10%



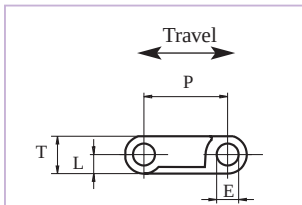
uni Light 22%



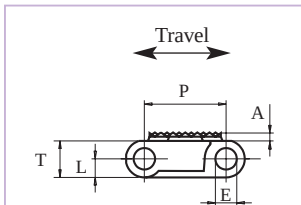
uni Light Rough Rubber Top

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

Dimensional Sketches



uni Light C, 10%, 22%



uni Light Rough Rubber Top

Dimensions

	mm	in.
A	2.0	0.08
E	5.1	0.20
L	4.3	0.17
P	19.1	0.75
T	8.5	0.33



Straight running



19.05 mm (0.75 in.)



Patented



See page 7, 8 and 9


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


See page 29



See page 129


03 **K** See page 11

Alternatives


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

Accessories



See page 30



See page 31



See page 30



See page 114

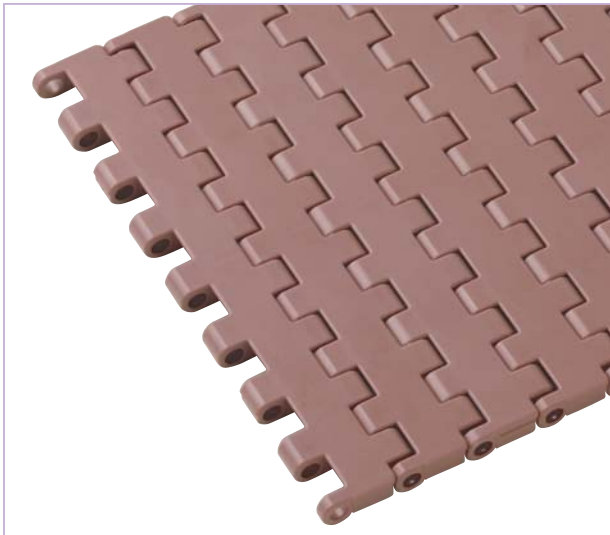
Standard Materials and Colors

Type	Standard materials and colors	Standard pins	Standard locks
		Materials and colors	Materials and colors
uni Light C	POM-LF BR	 PA6.6 D	
	PP W G K	 PA6.6 N	
	PP B	 PA6.6 D	
	PA6 K	 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	

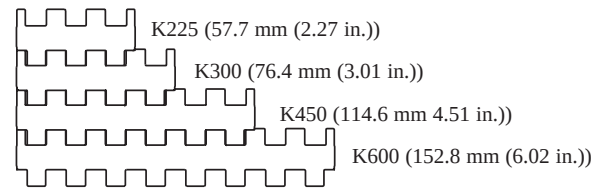
Standard Bricklaid Belt Widths (See below for Single Link® widths)

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

uni Light Single Link®



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



Standard 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	31.0	1.22	ø16.0/20.0*	ø0.63/0.79*	2833UL07N
10	61.7	2.43	61.7	2.43	45.0	1.77	ø16.0/35.0*	ø0.63/1.38*	2833UL10N
					49.0	1.93	hex 38.1	hex 1.50	2833UL10N15HEX
17	103.7	4.08	105.0	4.13	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	2833UL17N
							sq 40.0	sq 1.57	2833UL17N40MMSQ
24	146.0	5.75	147.3	5.80	70.0	2.76	ø19.1/40.0*	ø0.75/1.57*	2833UL24N
							sq 38.1	sq 1.50	2833UL24N15INSQ
							sq 40.0	sq 1.57	2833UL24N40MMSQ
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	2833UL24NBB
25	152.0	5.98	153.3	6.04	70.0	2.76	ø19.1/40.0*	ø0.75/1.57*	2833UL25N
							sq 38.1	sq 1.50	2833UL25N15INSQ
							sq 40.0	sq 1.57	2833UL25N40MMSQ
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	2833UL25NBB

* Minimum/maximum round bore.



uni Light sprocket

Standard Material and Color

PA6

N

Other sprocket sizes are available upon request.

Two-part sprockets available upon request.

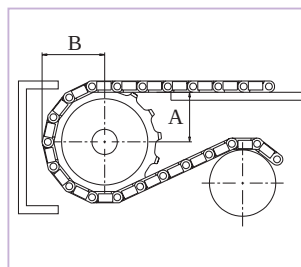
Please contact uni-chains® for further information.

Width of sprockets: 25.0 mm (0.98 in.)

Tooth width: 4.8 mm (0.19 in.)

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



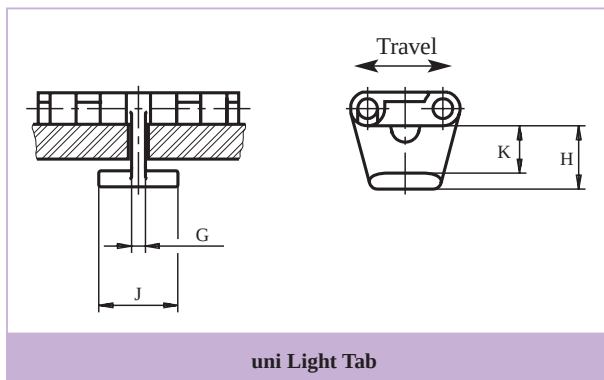
Permissible Tensile Strength

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

Belt Weights

Belt material	POM				PP				PE			
	plastic		steel		plastic		steel		plastic		steel	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	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 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 Rubber Top	-	-	-	-	5.5	1.13	13.0	2.66	-	-	-	-

Standard Selection Accessories



Standard Material and Color

POM-D W

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

Dimensions

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

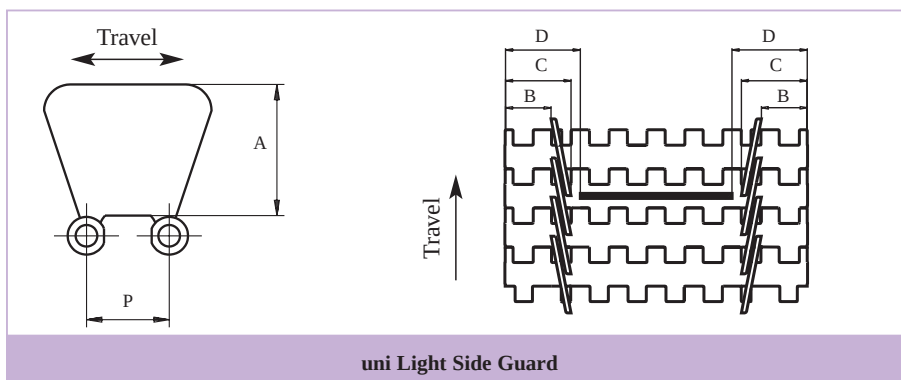
Note: When using tabs please verify that sufficient clearance to the shaft exists.

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 = 17: Max. shaft diameter 103.7 - 44.5 = ø59 mm (4.08 - 1.75 = ø2.3 in.).

Standard Selection Accessories



Standard Material and Color

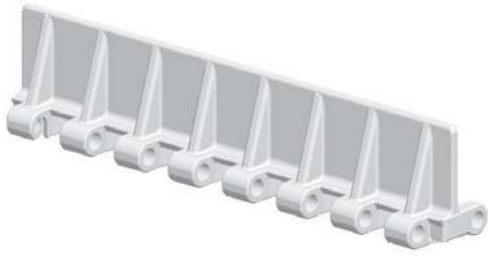
PP-I W G

Dimensions

	mm	in.
A	31.4	1.23
B* min.	15.0	0.59
C* min.	24.0	0.98
D* min.	25.0	0.98
P	19.05	0.75

* Increment: 9.5 mm (0.37 in.).

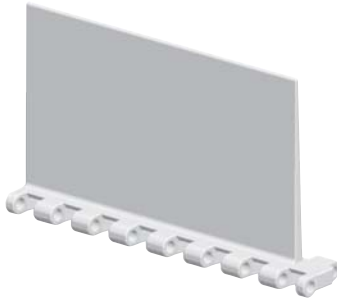
Standard Selection Accessories



uni Light Product Support with Ribs



uni Light Product Support Flat (no Ribs)



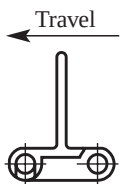
Product Support with Indent

Product Support **L-I15** (Left Indent)
Product Support **R-I15** (Right Indent)

Standard Materials, Colors and Dimensions

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

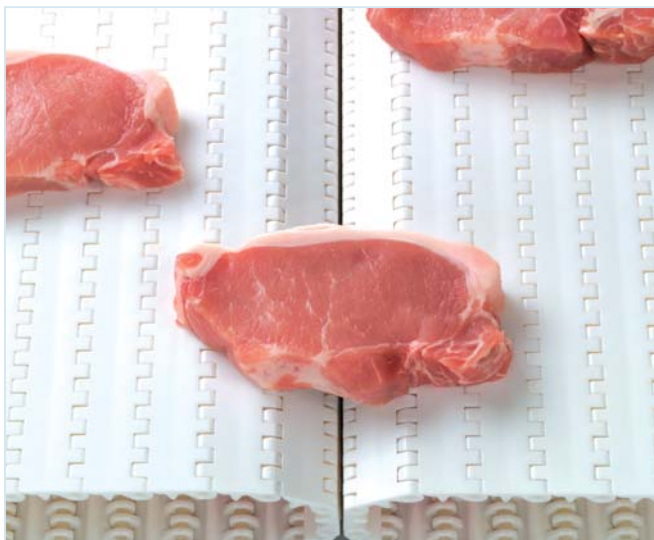
Dimensional Sketch



Product Support

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

Pitch 25.4 mm (1.00 in.)



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

The uni Small MPB (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 S-MPB belt is available in the unique Single Link® belt with a Single Link® product support for optimal cleaning.

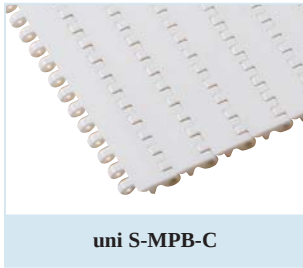
The uni S-MPB belt is the preferred belt in the following industries/applications:

- Meat (beef & pork) applications including fat/trim lines, cutting lines, general conveyance 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

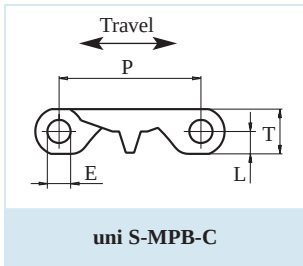
Product features and operational benefits:

- Easy to clean Single Link® belt – reduces downtime for cleaning up to 70%
- Single Link® belt (no brick lay) reduces bacteria growth
- Single Link® eliminates knives sticking in belt seams
- Unique locking system (lockpin) – faster, simpler maintenance
- Unique sprocket engagement – higher product load and longer conveyors
- Strong and thick Single Link® product supports eliminate gaps across the width where product can become trapped
- Close transfer applications

Standard Selection



Dimensional Sketch



Dimensions

	mm	in.
E	5.1	0.20
L	5.2	0.21
P	25.4	1.00
T	10.4	0.41



Straight running



25.4 mm (1.00 in.)



Patent

Patent pending



Materials

See page 7, 8 and 9



23 mm (0.91 in.)



See page 35



See page 129

Standard Materials and Colors

Type	Standard materials and colors	Standard pins	
		Materials and colors	
uni S-MPB-C	POM-DI W	 PA6.6	N
	PP W B	 PA6.6	N
	PE-I N B	 PA6.6	N

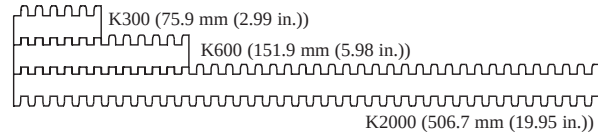
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni S-MPB Single Link®



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



Permissible Tensile Strength

Belt material	POM		PP		PE	
Pin material	PA6.6		PA6.6		PA6.6	
	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft
uni S-MPB Single Link®	23500	1610	9500	651	7850	538

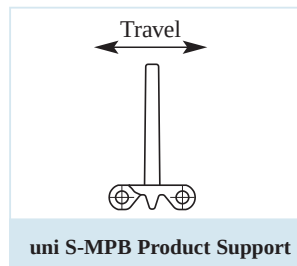
Belt Weights

Belt material	POM		PP		PE	
Pin material	plastic		plastic		plastic	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni S-MPB Single Link®	8.3	1.69	5.6	1.14	5.7	1.18

Standard Selection Accessories



Dimensional Sketch



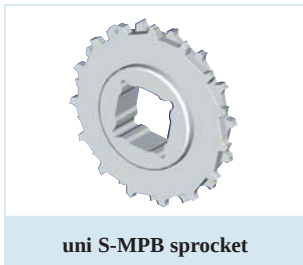
Standard Materials, Colors and Dimensions

Height		Style	Width			Indent both sides		Standard materials & colors		
mm	in.		Type	mm	in.	mm	in.	POM-DI	PP	PE-I
50.8	2.00	Indent	K2000	506.7	19.95	25.8	1.02	W	W B	N B

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	ø16.0/25.4*	ø0.63/1.00*	7833SMPB06NR2
8	66.4	2.61	65.6	2.58	50.0	1.97	ø16.0/40.0*	ø0.63/1.57*	7833SMPB08NR2
10	82.2	3.24	82.2	3.24	66.0	2.60	ø18.0/40.0*	ø0.71/1.57*	7833SMPB10NR2
12	98.1	3.86	98.6	3.88	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	7833SMPB12NR2
15	122.2	4.81	123.1	4.85	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	7833SMPB15NR2
							sq 38.1	sq 1.50	7833SMPB15NR215INSQ
							sq 40.0	sq 1.57	7833SMPB15NR240MMSQ
20	162.4	6.39	163.8	6.45	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	7833SMPB20NR2

* Minimum/maximum round bore.



uni S-MPB sprocket

Width of sprockets: 25.0 mm (0.98 in.)

Tooth width: 12.7 mm (0.50 in.)

Standard Material and Color

PA6

N

Max. Load per Sprocket

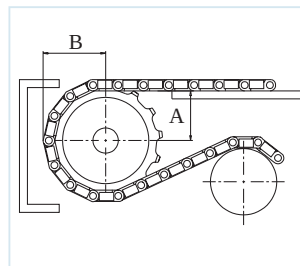
Belt material	POM		PP		PE	
	N	lb	N	lb	N	lb
uni S-MPB	1100	247	500	112	500	112

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

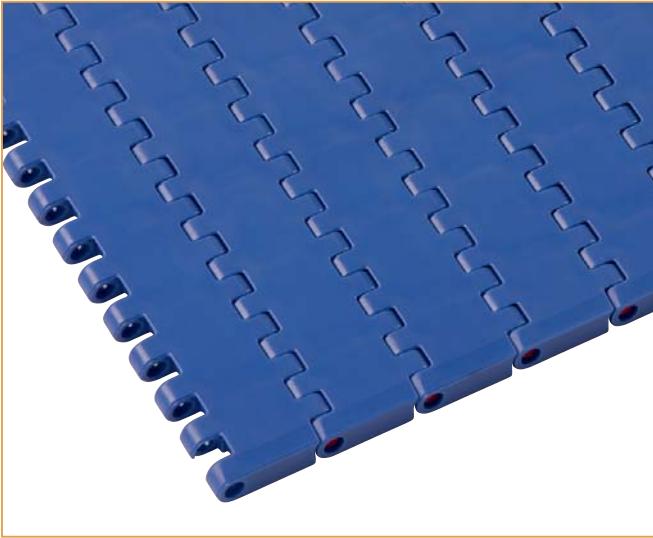
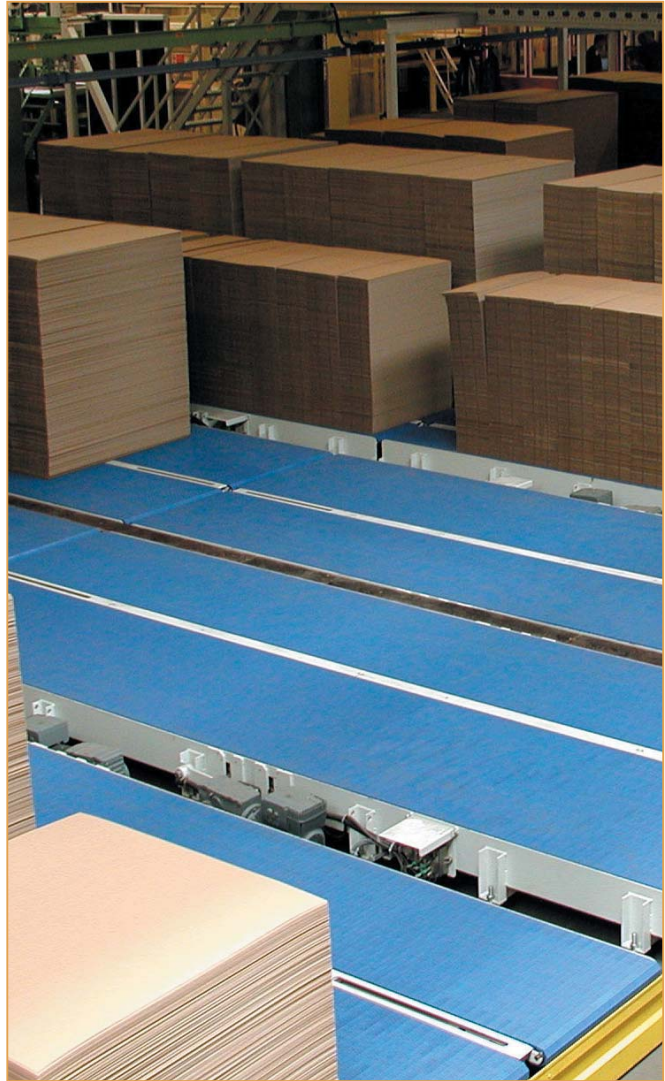
Please contact uni-chains® for further information.

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



Pitch 25.4 mm (1.00 in.)



uni QNB – strong and reliable

The uni QNB is a belt developed for different applications in many industries. The belt is unique due to its strength and reliability. The chamfered edges allow easy side transfer and eliminate catch points.

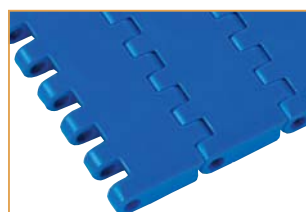
The uni QNB belt has increased performance in the following industries/applications:

- Bakery applications including pan handling and incline/decline box or pan applications
- Meat and 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 (lockpin) for easy maintenance
- Unique sprocket engagement reduces pulsation and increases load capacity
- Unique Rubber Top eliminates wear and increases friction properties on incline/decline applications

Standard Selection



uni QNB C



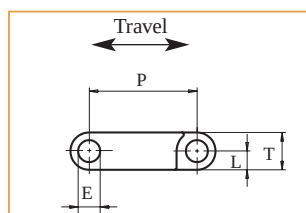
uni QNB Rough



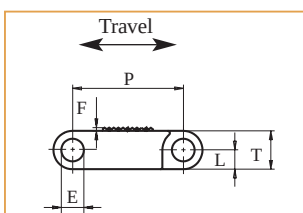
uni QNB Rubber Top*

* Dimensional sketches for Rubber Top see page 40.

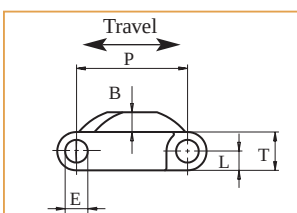
Dimensional Sketches



uni QNB C



uni QNB Rough



uni QNB Rubber Top

Dimensions

	mm	in.		mm	in.		mm	in.
B	4.5	0.18	F	0.8	0.03	P	25.4	1.00
E	5.1	0.20	L	4.4	0.17	T	8.8	0.35



Straight running



25.4 mm (1.00 in.)



Patent pending



See page 7 and 8



40 mm (1.6 in.)



See page 39



See page 129


03 **K** See page 11

Alternatives


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

PA6.6 **N**

PA6.6 **D**

PP **D**

Accessories



See page 40

Standard Materials and Colors

Type	Standard materials and colors		Standard pins	
			Materials and colors	
uni QNB C	POM-SLF	B		PA6.6 D
	PP	G		PA6.6 D
uni QNB Rough	POM-SLF	B		PA6.6 D
uni QNB Rubber Top	PP	G B + 03 K		PA6.6 D

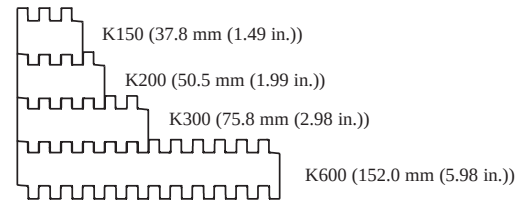
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
38	1.5	379	14.9	835	32.9	1290	50.8	1746	68.7	2201	86.7	2657	104.6
51	2.0	455	17.9	911	35.9	1366	53.8	1822	71.7	2277	89.6	2732	107.6
76	3.0	531	20.9	987	38.8	1442	56.8	1898	74.7	2353	92.6	2808	110.6
152	6.0	607	23.9	1063	41.8	1518	59.8	1973	77.7	2429	95.6	2884	113.6
228	9.0	683	26.9	1139	44.8	1594	62.8	2049	80.7	2505	98.6	2960	116.5
304	12.0	759	29.9	1214	47.8	1670	65.7	2125	83.7	2581	101.6	3036	119.5

uni QNB Single Link®



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



Standard 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 Rough			X	X
uni QNB Rubber Top			X	X

☐ SLO = Single Link only

Permissible Tensile Strength

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

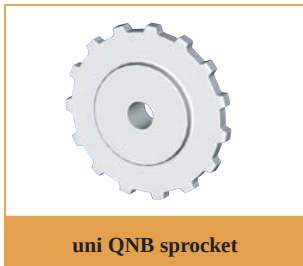
Belt Weights

Belt material	POM				PP			
Pin material	PP		PA6.6		PP		PA6.6	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni QNB C/uni QNB Rough	8.3	1.70	8.4	1.72	5.3	1.09	5.4	1.11
uni QNB Rubber Top	-	-	-	-	6.9	1.41	-	-

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*	1433QNB10N
							sq 38.1	sq 1.50	1433QNB0N15INSQ
							sq 40.0	sq 1.57	1433QNB10N40MMSQ
12	98.1	3.86	96.8	3.81	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1433QNB12N
							sq 38.1	sq 1.50	1433QNB12N15INSQ
							sq 40.0	sq 1.57	1433QNB12N40MMSQ
15	122.2	4.81	121.5	4.78	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1433QNB15N
							sq 38.1	sq 1.50	1433QNB15N15INSQ
							sq 40.0	sq 1.57	1433QNB15N40MMSQ
					100.0	3.94	ø40.0/ø70*	ø1.57/2.76*	1433QNB15NBB
							sq 63.5	sq 2.50	1433QNB15NBB25INSQ
							sq 60.0	sq 2.36	1433QNB15NBB60MMSQ
18	146.3	5.76	146.1	5.75	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1433QNB18N
							sq 38.1	sq 1.50	1433QNB18N15INSQ
							sq 40.0	sq 1.57	1433QNB18N40MMSQ
					120.0	4.72	ø40.0/ø70*	ø1.57/2.76*	1433QNB18NBB
							sq 60.0	sq 2.36	1433QNB18NBB60MMSQ
19	154.3	6.07	154.2	6.07	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1433QNB19N
							sq 38.1	sq 1.50	1433QNB19N15INSQ
							sq 40.0	sq 1.57	1433QNB19N40MMSQ
					120.0	4.72	ø40.0/ø70*	ø1.57/2.76*	1433QNB19NBB
							sq 60.0	sq 2.36	1433QNB19NBB60MMSQ

* Minimum/maximum round bore.

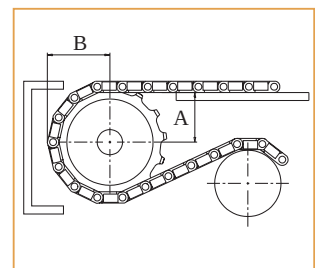


Width of sprockets: 25.0 mm (0.98 in.)

Tooth width: 10.0 mm (0.39 in.)

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



Standard Material and Color

PA6

N

Max. Load per Sprocket

Belt material	POM		PP	
	N	lb	N	lb
uni QNB	2300	517	1300	292

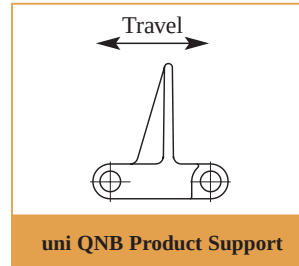
Other sprocket sizes are available upon request. Two-part sprockets available upon request. Please contact uni-chains® for further information.

Standard Selection Accessories



uni QNB Product Support

Dimensional Sketch



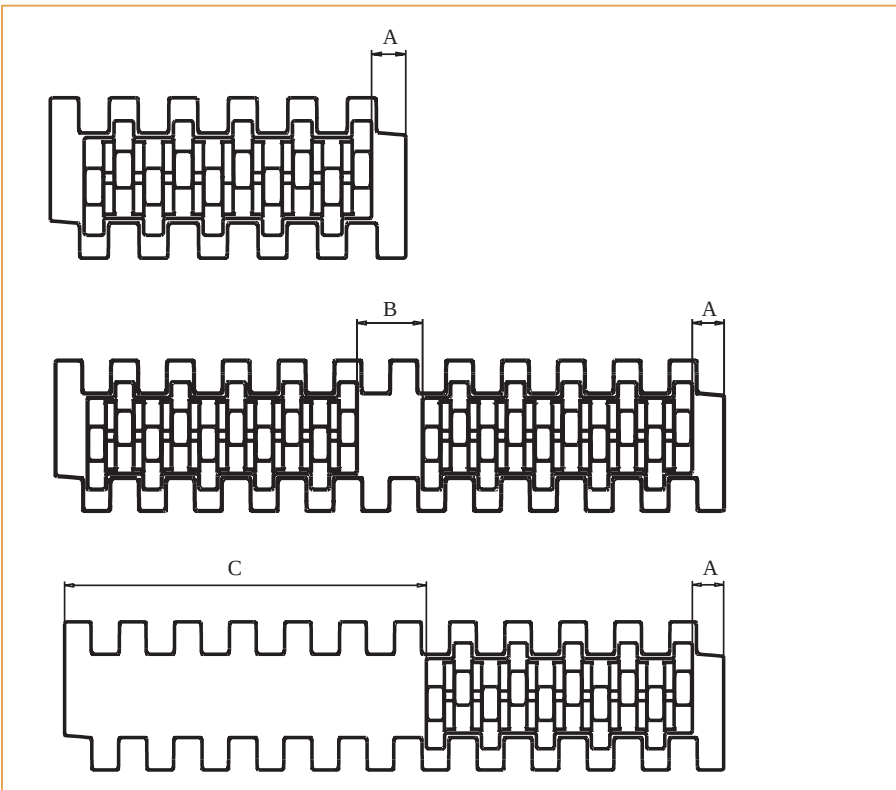
uni QNB Product Support

Standard Materials, Colors and Dimensions

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

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

Dimensional Sketches for Rubber Top



Dimensions

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

Pitch 25.4 mm (1.00 in.)



uni CNB – cleanable belt for light duty applications

The uni CNB belt is a cleanable belt for conveying of light duty products in various food applications. The belt is available with different openings to optimize drainage and airflow and includes accessories such as product supports and side guards. The unique hinge and sprocket design make the belt very easy to clean.

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 locking system (lockpin) – faster, simpler maintenance
- Unique sprocket engagement – precise indexing, easy cleaning
- Different openings to optimize performance in cooling and draining applications

Standard Selection



uni CNB C



uni CNB 18%



uni CNB 22%

Standard Materials and Colors

Type	Standard materials and colors	Standard pins	
		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



Straight running



25.4 mm (1.00 in.)



Patented



See page 7, 8 and 9



40 mm (1.6 in.)



See page 44



See page 129

Alternatives


PP W PE W
PA6.6 B SS304

Accessories

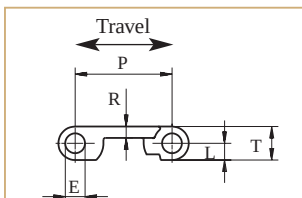


See page 45



See page 45

Dimensional Sketch



uni CNB

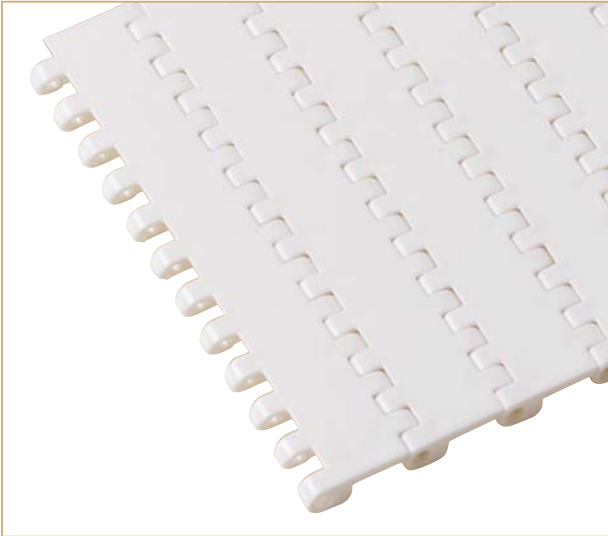
Dimensions

	mm	in.
E	5.1	0.20
L	4.4	0.17
P	25.4	1.00
R	3.0	0.12
T	8.8	0.35

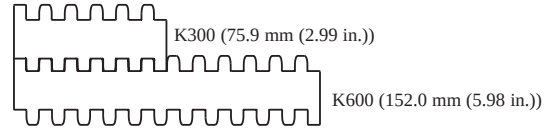
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni CNB Single Link®



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



Permissible Tensile Strength

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft
uni CNB C, 18%, 22%	13500	925	15700	1076	7500	514	7500	514	6200	425	5800	397

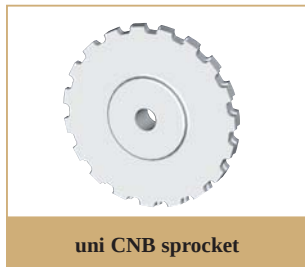
Belt Weights

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

Standard Sprockets

No. of teeth	Pitch diameter		Overall diameter		Hub diameter		Bore		Reference no. 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*	1933CNB10N
							sq 38.1	sq 1.50	1933CNB10N15INSQ
							sq 40.0	sq 1.57	1933CNB10N40MMSQ
12	98.1	3.86	96.8	3.81	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1933CNB12N
							sq 38.1	sq 1.50	1933CNB12N15INSQ
							sq 40.0	sq 1.57	1933CNB12N40MMSQ
15	122.2	4.81	121.5	4.78	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1933CNB15N
							sq 38.1	sq 1.50	1933CNB15N15INSQ
							sq 40.0	sq 1.57	1933CNB15N40MMSQ
18	146.3	5.76	146.1	4.72	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1933CNB18N
							sq 38.1	sq 1.50	1933CNB18N15INSQ
							sq 40.0	sq 1.57	1933CNB18N40MMSQ
19	154.3	6.07	154.2	6.07	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	1933CNB19N
							sq 38.1	sq 1.50	1933CNB19N15INSQ
							sq 40.0	sq 1.57	1933CNB19N40MMSQ

* Minimum/maximum round bore.



uni CNB sprocket

Width of sprockets: 25.0 mm (0.98 in.)

Tooth width: 12.0 mm (0.47 in.)

Standard Material and Color

PA6

N

Max. Load per Sprocket

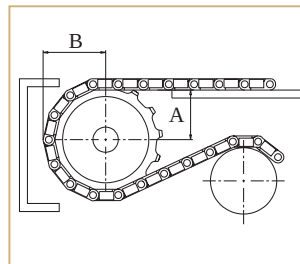
Belt material	POM		PP	
	N	lb	N	lb
uni CNB	600	135	500	112

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

Please contact uni-chains® for further information.

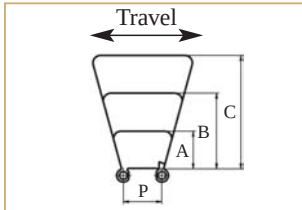
Placement of Wearstrips and Sprockets

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



Standard Selection Accessories

Dimensional Sketch



uni CNB Side Guard

Dimensions

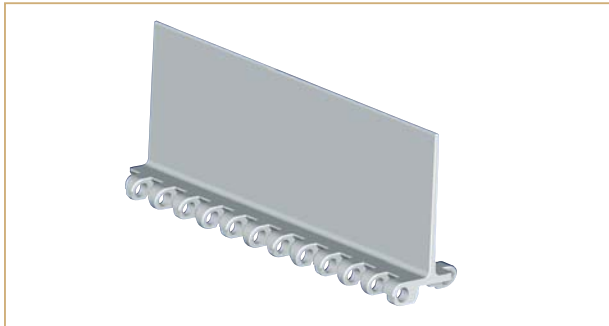
	mm	in.
A	25.4	1.00
B	50.8	2.00
C	76.2	3.00
P	25.4	1.00

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

Standard Materials

PP-I W

Standard Selection Accessories



uni CNB Product Support (No Indent)



uni CNB Micro Product Support 22%

Standard Materials, Colors and Dimensions

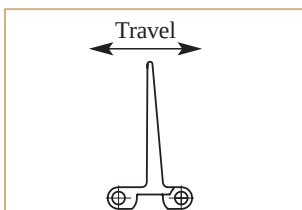
Height		Style	Width			Molded indent	Standard materials & colors		
mm	in.		Type	mm	in.		POM-D	PE	PP-I
5.0	0.20	22% micro	K300	75.9	2.99	LI/RI*		N	W
			K600	152.0	5.98	LI/RI*		N	W
25.4	1.00	No indent	K600	152.0	5.98	no**	W	N	B W
50.8	2.00	No indent	K600	152.0	5.98	no**	W	N	B W
76.2	3.00	No indent	K600	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 bricklaid indent for uni CNB product support is 38.1 mm (1.50 in.).

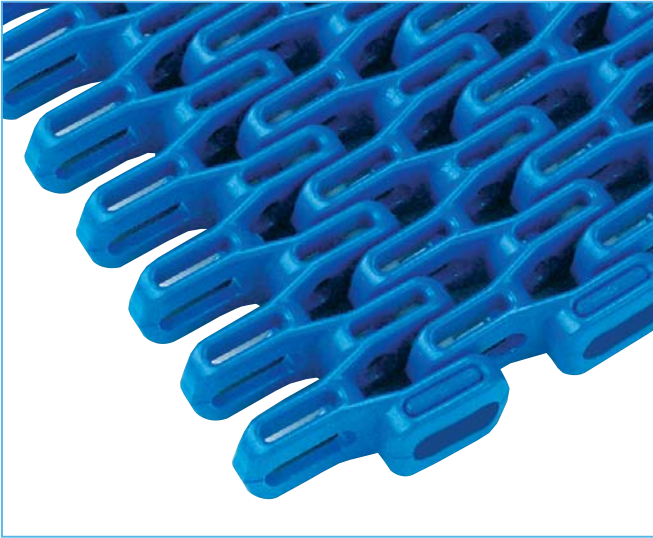
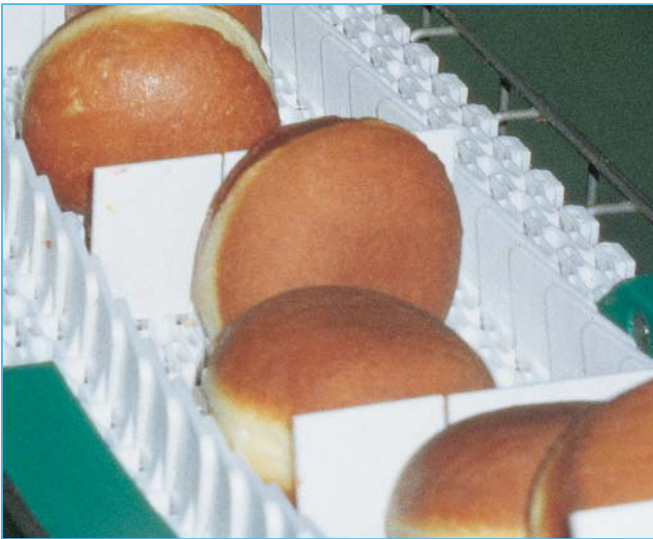
Increment: 12.7 mm (0.50 in.).

Dimensional Sketch



uni Product Support

Pitch 25.4 mm (1.00 in.)



uni Flex SNB – strong and tight radius side flexing belt

uni Flex SNB 1 in. pitch was created to optimize throughput in high volume operations with space limitations. The belt has unique strength and side flexing 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 side flexing 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.

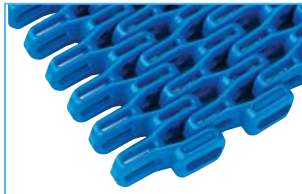
Product features and operational benefits:

- 180 degree high speed side flexing applications
- High temperature and wear resistance
- Tight radius applications – 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

Pitch 25.4 mm (1.00 in.)



Standard Selection



uni Flex SNB-L

Surface opening 55%



uni Flex SNB-C

Surface opening 47%



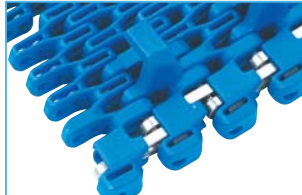
uni Flex SNB-CR

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-C
Rubber Top

Surface opening 47%

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



Side flexing



25.4 mm (1.00 in.)



Patented



See page 7, 8 and 10



50 mm (2.0 in.)



See page 54



See page 129



03 **K** 03 **N**
See page 11

Alternative



PP **W**

SS304

SS316

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

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

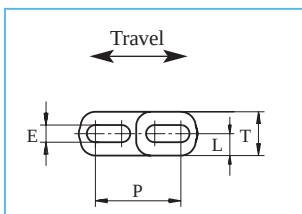
uni Flex SNB-CR: Tight radius. Min. inside radius 1.6 x belt width. 47% open hygienic solid grid surface.

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

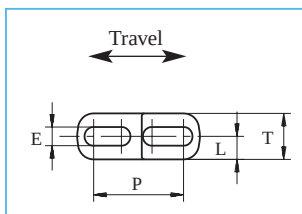
uni Flex SNB-WT: Standard radius (2.3 x W) fitted with cover links and PA6.6 pins or with reinforcement links and steel pins. Integral molded edge wearpart. Integral underside tab (S-Tab).

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

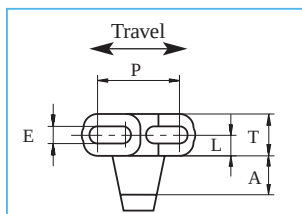
Dimensional Sketches



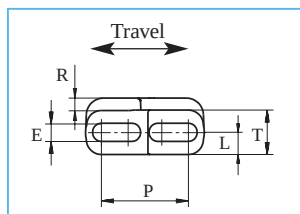
uni Flex SNB-L/W/WO



uni Flex SNB-C/CR



uni Flex SNB-WT



uni Flex SNB Rubber Top

Dimensions

	mm	in.		mm	in.		mm	in.
A	12.0	0.48	L	6.5	0.26	R	3.0	0.12
E	5.1	0.20	P	25.4	1.00	T	13.0	0.51

Standard Materials and Colors

Type	Standard materials and colors		Standard pins	
			Materials and colors	
uni Flex SNB-L	POM-D	W		PA6.6 N
	POM-D	B		PA6.6 B
	PP	W		PA6.6 N
	PP	B		PA6.6 B
	PA6.6	B		PA6.6 B
	PA6.6	W		PA6.6 N
uni Flex SNB-C/CR	POM-D	W		PA6.6 N
	POM-D	B		PA6.6 B
	PP	W		PA6.6 N
	PP	B		PA6.6 B
	PA6.6	B		PA6.6 B
	PA6.6	W		PA6.6 N
uni Flex SNB-W	POM-D	W		SS304
	POM-D	B		SS304
	PP	W		SS304
	PP	B		SS304
	PA6.6	B		SS304
	PA6.6	W		SS304
uni Flex SNB-WT	POM-D	W		SS304 or PA6.6 N
	POM-D	B		SS304 or PA6.6 B
	PP	W		SS304 or PA6.6 N
	PP	B		SS304 or PA6.6 B
	PA6.6	B		SS304 or PA6.6 B
	PA6.6	W		SS304 or PA6.6 N
uni Flex SNB-WO	POM-D	W		SS304
	POM-D	B		SS304
	PP	W		SS304
	PP	B		SS304
	PA6.6	B		SS304
	PA6.6	W		SS304
uni Flex-SNB Rubber Top	PP	B + 03 K		PA6.6 B
	PP	W + 03 N		PA6.6 N

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

Lockingplates: PP W B

Wearparts and O-Tabs: PA6.6 W B

For high speed and/or abrasive applications offers:

Wearpart and O-Tab in POM-DK: O

For uni Flex SNB-W/WT/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

Cover links: PA6.6 W B



uni Flex SNB cover link

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

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

*** Note:** These belt widths are only available for uni Flex SNB-L and uni Flex SNB-C.

uni Flex SNB-C/CR:

$$W = W_L$$

uni Flex SNB-L or C/CR with wearpart both sides:

$$W = W_L + 2 \times 3 \text{ mm (0.24 in.)}$$

For wearpart /O-Tab one side:

$$1 \times 3 \text{ mm (0.12 in.)}$$

uni Flex SNB-L, C/CR with O-Tab both sides:

$$W = W_L + 2 \times 3 \text{ mm (0.24 in.)}$$

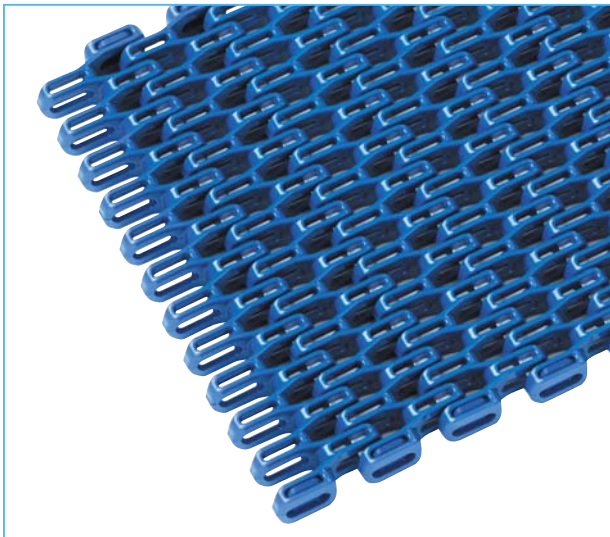
For wearpart /O-Tab one side:

$$1 \times 3 \text{ mm (0.12 in.)}$$

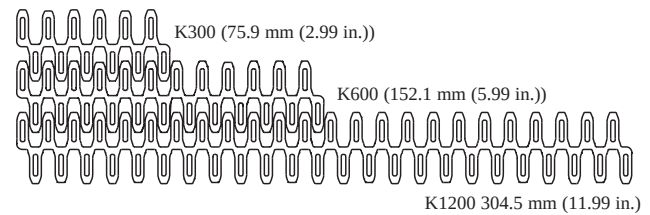
uni Flex SNB-W, WO or WT both sides:

$$W = W_L + 2 \times 3 \text{ mm (0.24 in.)}$$

uni Flex SNB Single Link®



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



See below for specific belt types available in each width.

Standard Single Link® Belt Widths

Belt type and widths	K300 75.9 mm (2.99 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-CR	X	X	
uni Flex SNB-W*	X	X	
uni Flex SNB-WT*		X	
uni Flex SNB-WO*	X	X	

*** Note:** Integrated wearpart, integrated underside tab (S-Tab) and integrated outer edge tab system.

uni Flex SNB Program

Belt type	Material	Hinge design	Flex ratio
uni Flex SNB-L	all plastic	open hinge	2.3
uni Flex SNB-C	all plastic	closed hinge	2.3*
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

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

Inner curve radius = Flex ratio x belt width.

* K300 Single Link® Flex ratio = 1.8 and K600 Single Link® Flex ratio = 1.7.

Max. Permissible Load in Curve

	Belt material	POM/PA6.6		PP	
	Pin material	N	lb	N	lb
uni Flex SNB-L/C/CR	PP or SS	600	135	600	135
uni Flex SNB-L/C/CR	PA6.6	1000	225	600	135

Max. Permissible Load in Curve

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

* RL = Reinforcement link

Max. Permissible Load on Straight Sections

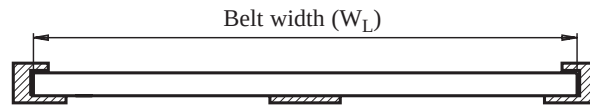
Belt material	POM/PA6.6		PP	
	N/m	lb/ft	N/m	lb/ft
uni Flex SNB-L, C, CR, W, WO, WT	30000	2055	15000	1028

Load Capacity per Reinforcement Link

	N/pcs	lb/pcs
uni Flex SNB	3300	742

The use of uni-chains® belt 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.

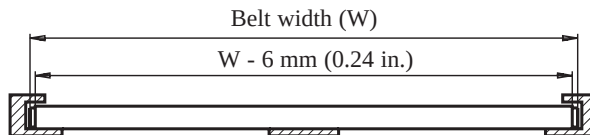
Belt Tracking and Control Systems


uni Flex SNB-L
(Standard)


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



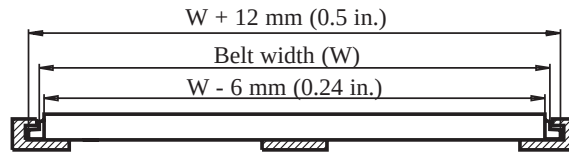
Wearpart



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



O-Tab



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



I-Tab

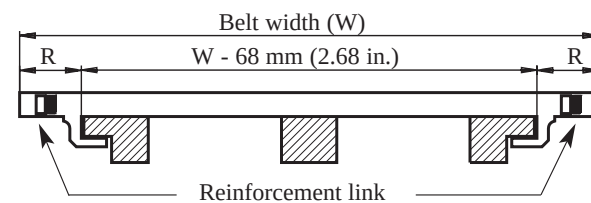


Please note that the tabs are not always placed in the middle of the belt.

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



S-Tab



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

$R = 34.0 \text{ mm (1.34 in.)}$

Note: When using S-Tabs please verify that sufficient clearance to the shaft exists. Max. shaft diameter = Sprocket pitch diameter - 50.8 mm (2.00 in.). When using square shafts verify that the diagonal does not exceed above max. diameter.
Example: Sprocket $z = 10$: Max. shaft diameter $82.2 - 50.8 = \varnothing 31 \text{ mm (3.24 - 2.00 = } \varnothing 1.2 \text{ in.)}$.

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

✓ Standard + Optional - Not possible

Belt Weights for uni Flex SNB-L

Belt material	POM		PP		PA6.6	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
PP	6.7	1.37	4.6	0.94	5.6	1.15
PA6.6	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/CR

Belt material	POM		PP		PA6.6	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
PP	7.5	1.54	5.2	0.94	6.2	1.27
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/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
PP	7.1	1.45	4.9	1.00	5.8	1.19
PA6.6	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/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
PP	7.4	1.52	5.1	1.04	6.1	1.25
PA6.6	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

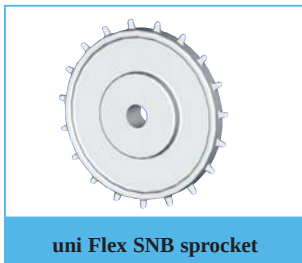
Belt Weights for uni Flex SNB-WO

Belt material	POM		PP		PA6.6	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
PP	7.3	1.52	5.1	1.04	6.1	1.25
PA6.6	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*	2133FSNB09N
							sq 25.4	sq 1.00	2133FSNB0910INSQ
							sq 30.0	sq 1.18	2133FSNB0930MMSQ
10	82.2	3.24	82.2	3.24	65.2	2.57	ø18.0/40.0*	ø0.71/1.57*	2133FSNB10N
							sq 25.4	sq 1.00	2133FSNB10N10INSQ
							sq 30.0	sq 1.18	2133FSNB10N30MMSQ
12	98.2	3.87	98.8	3.89	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	2133FSNB12N
							sq 38.1	sq 1.50	2133FSNB12N15INSQ
							sq 40.0	sq 1.57	2133FSNB12N40MMSQ
15	122.2	4.81	123.5	4.86	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	2133FSNB15N
							sq 38.1	sq 1.50	2133FSNB15N15INSQ
							sq 40.0	sq 1.57	2133FSNB15N40MMSQ
18	146.3	5.76	146.1	5.75	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	2133FSNB18N
							sq 38.1	sq 1.50	2133FSNB18N15INSQ
							sq 40.0	sq 1.57	2133FSNB18N40MMSQ
19	154.3	6.07	156.2	6.15	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	2133FSNB19N
							sq 38.1	sq 1.50	2133FSNB19N15INSQ
							sq 40.0	sq 1.57	2133FSNB19N40MMSQ

* Minimum/maximum round bore.



uni Flex SNB sprocket

Standard Material and Color

PA6 N

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

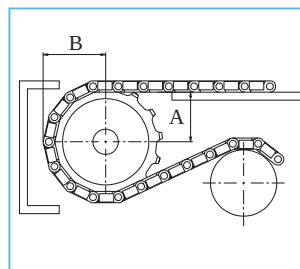
Please contact uni-chains® for further information.

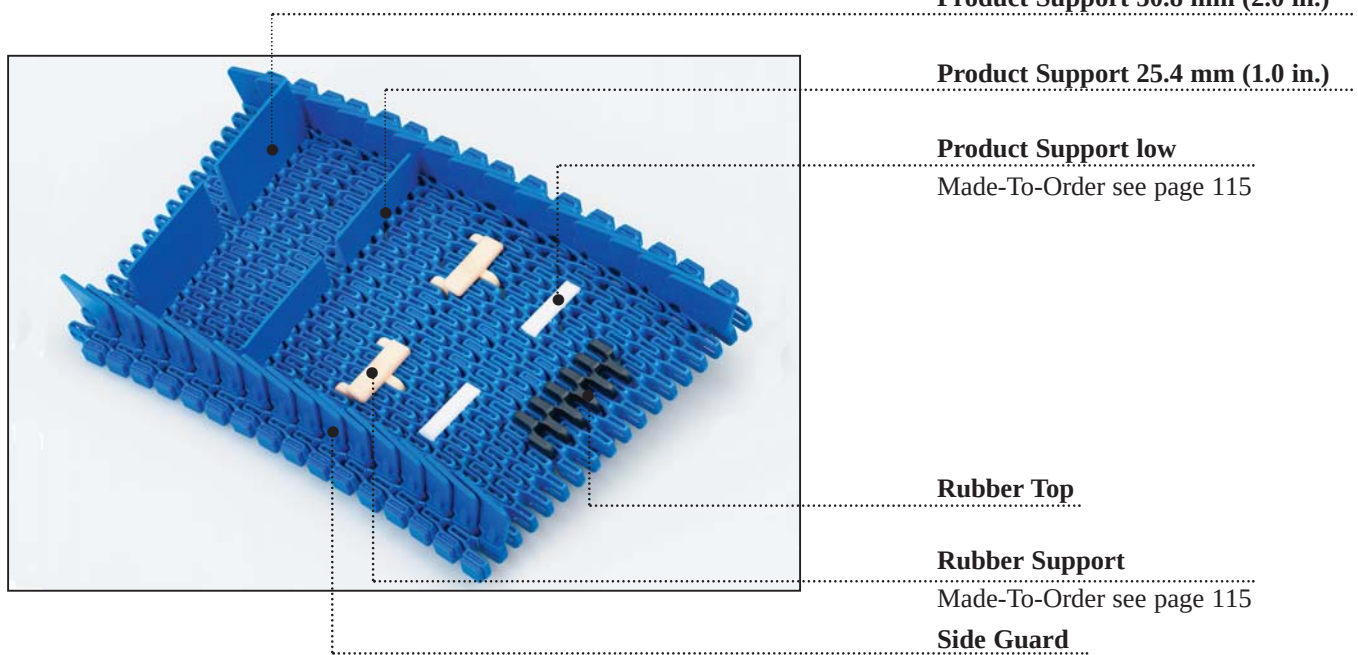
Width of sprockets: 25.0 mm (0.98 in.)

Tooth width: 6.4 mm (0.25 in.)

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





Standard Materials and Colors

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

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 - = Not possible

^{1/} Minimum indent from the side of the belt 6.5 mm (0.26 in.).

^{2/} Minimum indent from the side of the belt 26.5 mm (1.04 in.).

^{3/} Minimum indent from the side of the belt 75.9 mm (2.99 in.).

For build patterns please contact uni-chains®.

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 while still maintaining high strength properties. The flat surface of the uni SNB M2 20% allows for gentle transport of sensitive products while still providing 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 open radius top surface makes the belt unique especially in dry applications.

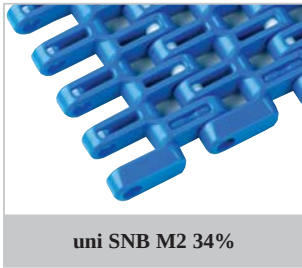
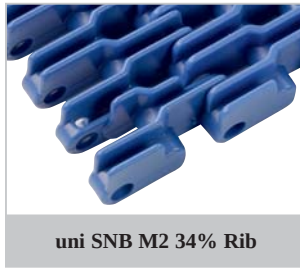
The uni SNB M2 belt increases performance in the following industries/applications:

- 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

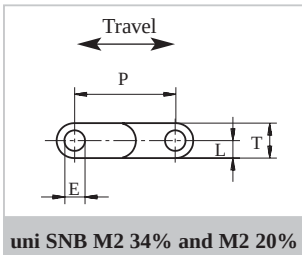
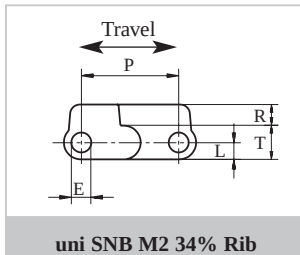
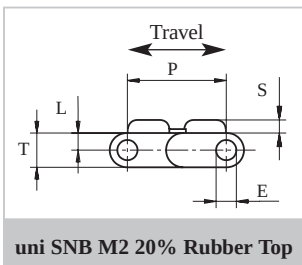
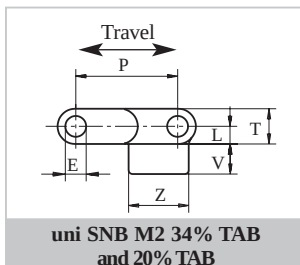
Product features and operational benefits:

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

Standard Selection



Dimensional Sketches



Dimensions

	mm	in.
E	5.1	0.20
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



Straight running



25.4 mm (1.00 in.)



Patented



See page 7, 8 and 9



30 mm (1.2 in.)



See page 61



See page 129



03 **K** **N** See page 11

Alternative

Only for uni SNB M2 34% and uni SNB M2 34% Rib. Not 20%-style belts.



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



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

Accessories



See page 60



See page 59

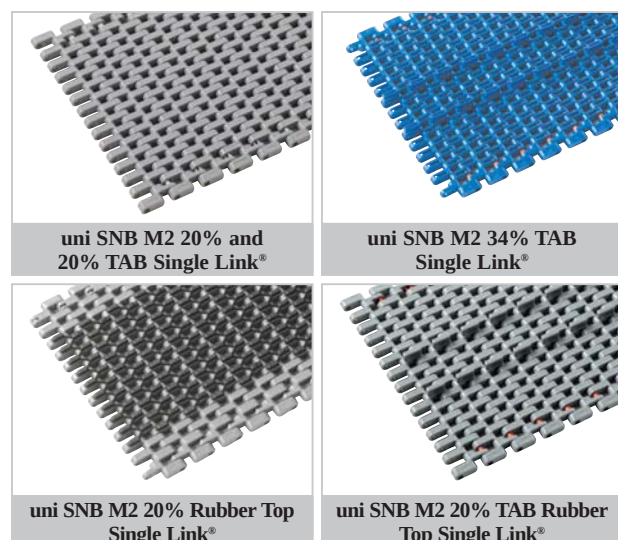
Standard Materials and Colors

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

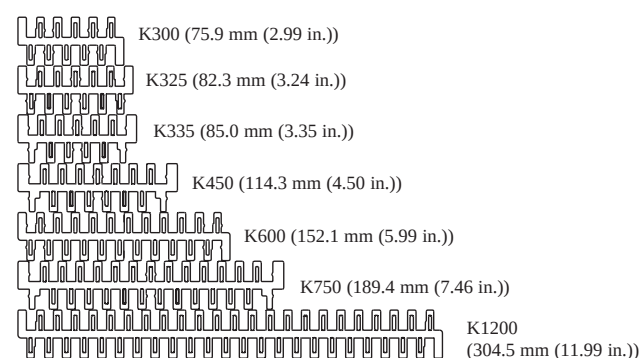
Standard Bricklaid Belt Widths (See below for Single Link® widths)

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

uni SNB M2 Single Link®



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



See below for specific belt types available in each width.

Standard Materials and Colors SLO

Type	Standard materials and colors	Standard pins	
		Materials and colors	
uni SNB M2 20% and 20% TAB Single Link®	PP B G	 PA6.6	D
uni SNB M2 20% and 20% TAB Rubber Top Single Link®	PP B G + 03 K	 PA6.6	D
uni SNB M2 34% TAB Single Link®	POM-D B	 PA6.6	D
	PP G	 PA6.6	D

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	X ^{1/}				X ^{1/}	SLO ^{2/}	
uni SNB M2 20% TAB Rubber Top						SLO ^{2/}	

SLO = Single Link® only

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

Permissible Tensile Strength

Belt material	POM		PP		PE	
Pin material	PP		PP		PE	
	N/m	lb/ft	N/m	lb/ft	N/m	lb/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	-	-

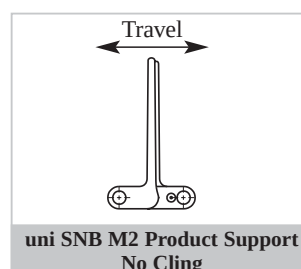
Belt Weights

Belt material	POM		PP		PE	
Pin material	PP		PP		PE	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni SNB M2 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	-	-

Standard Selection Accessories



Dimensional Sketches



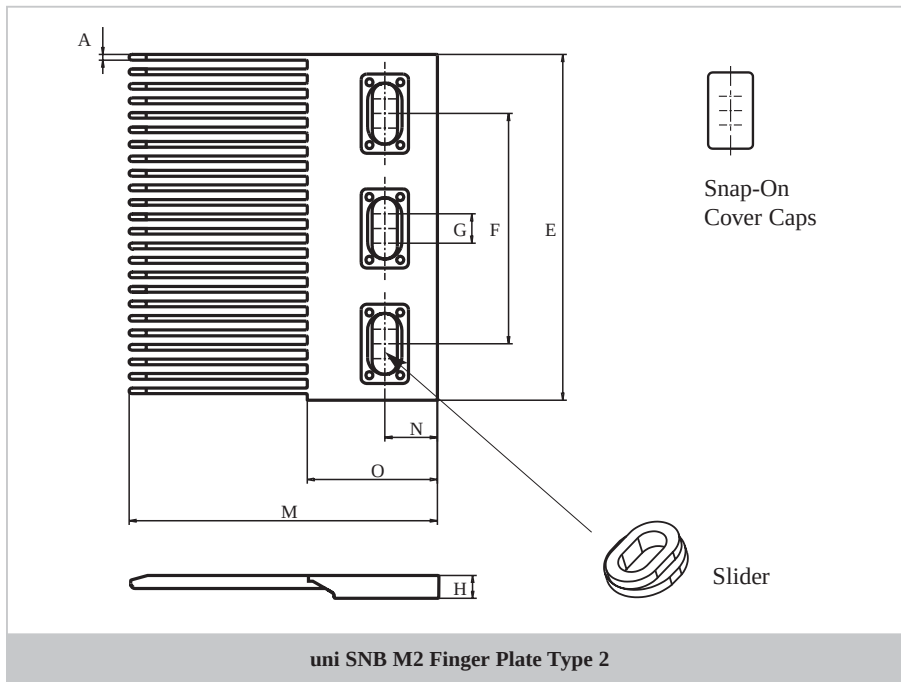
Only No Cling on one side and Flat on the other side.

Minimum bricklaid indent for uni SNB M2 product support is 38.0 mm (1.50 in.).
Increment: 12.7 mm (0.50 in.).

Standard Materials, Colors and Dimensions

Height		Width			Standard materials & colors		
mm	in.	Type	mm	in.	POM-D	PP	PE
50.8	2.00	K600	152.1	5.99	B	G	N
76.2	3.00	K600	152.1	5.99	B	G	N
101.6	4.00	K600	152.1	5.99	B	G	N

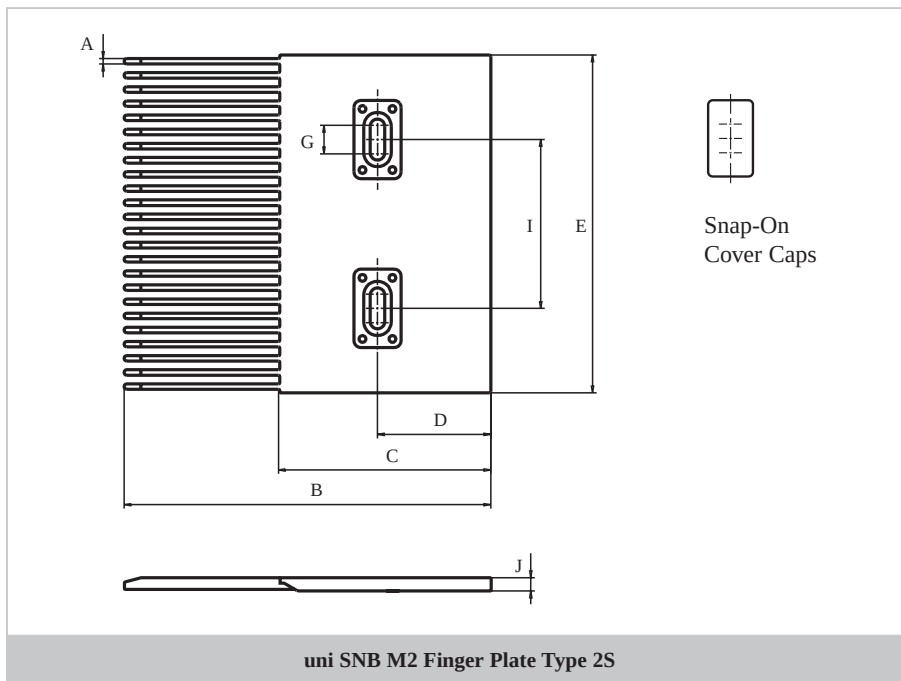
Standard Selection Accessories



Standard Materials and Colors

POM-EC **K**

Only available in POM-EC black.



Standard Materials and Colors

POM-EC **K**

Only available in POM-EC black.

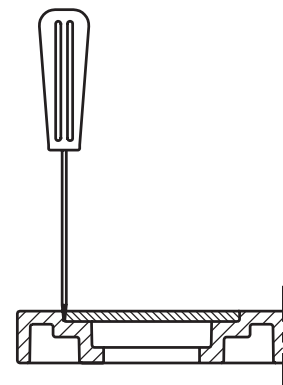
Dimensions

	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

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 plate.

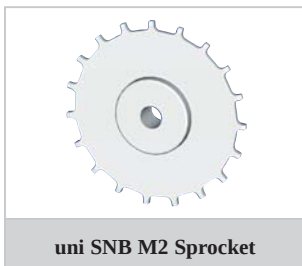
In order to adjust to belt width variations caused by temperature fluctuations, a slider facilitates the sideways movement of the finger plates (finger plate type 2).



Standard 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*	75332SNB10N
							sq 38.1	sq 1.50	75332SNB10N15INSQ
							sq 40.0	sq 1.57	75332SNB10N40MMSQ
12	98.1	3.86	103.2	4.06	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	75332SNB12N
							sq 38.1	sq 1.50	75332SNB12N15INSQ
							sq 40.0	sq 1.57	75332SNB12N40MMSQ
18	146.3	5.76	152.7	6.01	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	75332SNB18N
							sq 38.1	sq 1.50	75332SNB18N15INSQ
							sq 40.0	sq 1.57	75332SNB18N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	ø1.57/2.76*	75332SNB18NBB
							sq 60.0	sq 1.57	75332SNB18NBB60MMSQ
							sq 63.5	sq 2.50	75332SNB18NBB25INSQ
19	154.3	6.07	160.9	6.33	65.0	2.56	ø19.1/40.0*	ø0.75/1.57*	75332SNB19N
							sq 38.1	sq 1.50	75332SNB19N15INSQ
							sq 40.0	sq 1.57	75332SNB19N40MMSQ
					120.0	4.72	ø40.0/70.0	ø1.57/2.76	75332SNB19NBB
							sq 60.0	sq 2.36	75332SNB19NBB60MMSQ
							sq 63.5	sq 2.50	75332SNB19NBB25INSQ
20	162.4	6.39	169.1	6.66	65.0	2.56	sq 38.1	sq 1.50	75332SNB20N15INSQ
							sq 40.0	sq 1.57	75332SNB20N40MMSQ
							ø40.0/70.0	ø1.57/2.76	75332SNB20NBB
					120.0	4.72	sq 63.5	sq 2.50	75332SNB20NBB25INSQ
							sq 60.0	sq 2.36	75332SNB20NBB60MMSQ
							sq 63.5	sq 2.50	75332SNB20NBB25INSQ

* Minimum/maximum round bore.



Width of sprockets: 25.0 mm (0.98 in.)

Tooth width: 6.0 mm (0.24 in.)

Standard Material and Color

PA6

N

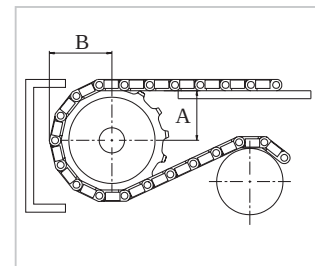
Max. Load per Sprocket

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

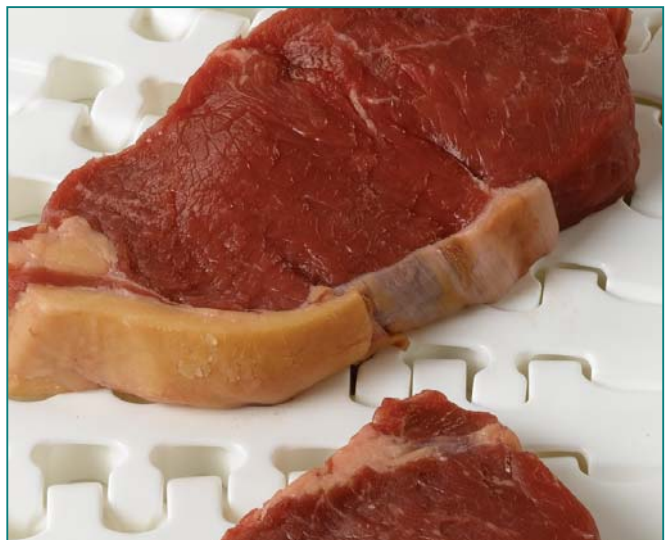
Other sprocket sizes are available upon request. Two-part sprockets available upon request. Please contact uni-chains® for further information.

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



Pitch 38.1 mm (1.50 in.)



uni Flex ONE – strong, cleanable and tight radius side flexing belt

uni Flex One 1.5 in. pitch was created to optimize throughput in high volume operations with space limitations. The belt is unique because it is pinless and has a higher tensile strength than all other side flexing belts in the market place.

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

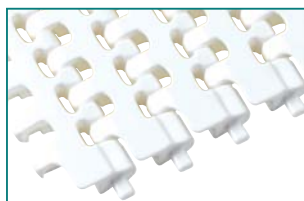
- Meat & poultry applications including tray pack conveyors, box/tote handling, freezers infeed/outfeed and other side flexing applications
- Fruit & vegetable applications including side flexing and packaging lines
- Bakery applications including cooling lines, pan handling, proofers and oven infeed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

Product Features and Operational Benefits:

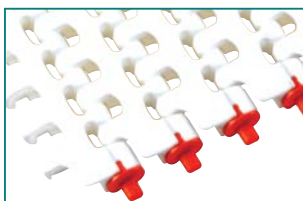
- 80 degree high speed side flexing applications
- Tight radius applications - reduced space requirements
- Snap Link® design (pinless) - no pin walking
- Unique safety top surface
- Edge Wearparts for higher speed and load
- Edge Roller Bearings for higher speed, load and no lubrication
- Integrated Wearparts for cleanable applications
- Easy maintenance with Snap Link® Design (pinless)



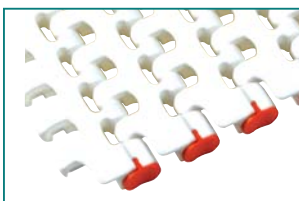
Standard Selection



uni Flex ONE-O



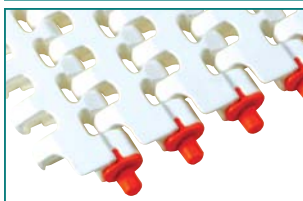
uni Flex ONE-EO



uni Flex ONE-EW

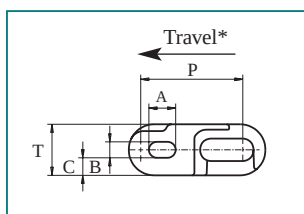


uni Flex ONE-ER

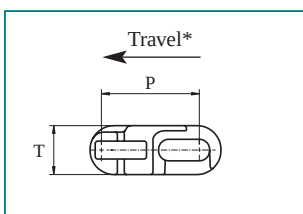


uni Flex ONE-EOO

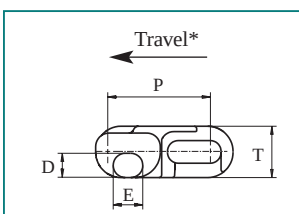
Dimensional Sketches



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).

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



Side flexing



38.1 mm (1.50 in.)



Pat. pending



See page 7 and 8



50 mm (1.8 in.)



See page 67 and 68



See page 129



See page 68

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

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 belt edge and 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 belt edge and 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 side flexing conveyors.

Standard Materials and Colors

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

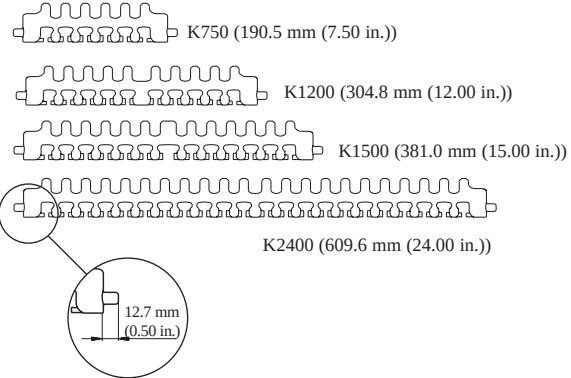
Exchangeable O-Tab, wearpart in POM-DK:



uni Flex ONE Single Link®



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



Standard Single Link® Belt Widths

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

Permissible Tensile Strength

Assortment		Belt width			Max. permissible load on straight section		Max. permissible load in curves at low speed*			
							UHMW PEHD 1000		Nylatron, NSM	
		Type	mm	in.	N	lbf	N	lbf	N	lbf
uni Flex ONE	-O	K750	190.5	7.50	2400	540	1800	405	2000	450
	-EW						1800	405	2000	450
	-EO						1800	405	2000	450
	-ER						2000	450	2000	450
uni Flex ONE	-O	K1200	304.8	12.00	4000	899	2700	607	3400	764
	-EW						2700	607	3400	764
	-EO						2700	607	3400	764
	-ER						3400	764	3400	764
uni Flex ONE	-O	K1500	381.0	15.00	6400	1439	2800	629	3500	787
	-EW						2800	629	3500	787
	-EO						2800	629	3500	787
	-ER						3500	787	3500	787
uni Flex ONE	-O	K2400	609.6	24.00	12000	2698	3200	719	3800	854
	-EW						3200	719	3800	854
	-EO						3200	719	3800	854
	-ER						3800	854	3800	854

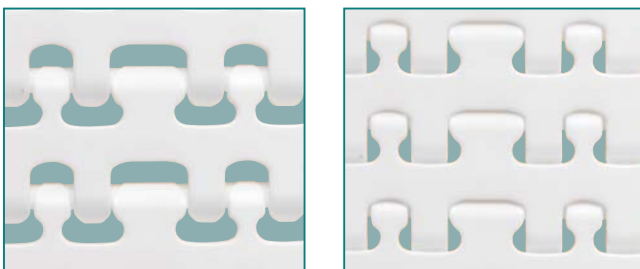
* Valid at 20° C (+ 68° F). Material for all types of uni Flex ONE: POM-SX.

Belt Weight

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

* L/R = L (left)/R (right). When ordering please specify Belt Edge Configuration on opposite 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.

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).

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	ø65.0	ø2.56	ø18.0/40.0*	ø0.71/1.57*	8233FONE08N
					sq 50.0	sq 1.97	sq 25.4	sq 1.00	8233FONE08N10INSQ
							sq 30.0	sq 1.18	8233FONE08N30MMSQ
9	111.4	4.39	113.7	4.48	ø70.0	ø2.76	ø18.0/40.0*	ø0.71/1.57*	8233FONE09N
					sq 57.0	sq 2.24	sq 38.1	sq 1.50	8233FONE09N15INSQ
							sq 40.0	sq 1.57	8233FONE09N40MMSQ
11	135.2	5.32	138.8	5.46	ø70.0	ø2.76	ø18.0/40.0*	ø0.71/1.57*	8233FONE11N
					sq 57.0	sq 2.24	sq 38.1	sq 1.50	8233FONE11N15INSQ
							sq 40.0	sq 1.57	8233FONE11N40MMSQ
					ø95.0	ø3.74	ø 40.0/ø70.0	ø1.57/2.76	8233FONE11NBB
					sq 75.0	sq 2.95	sq 50.8	sq 2.00	8233FONE11NBB20INSQ
							sq 60.0	sq 2.36	8233FONE11NBB60INSQ
12	147.2	5.80	151.2	5.95	ø70.0	ø2.76	ø18.0/40.0*	ø0.71/1.57*	8233FONE12N
					sq 57.0	sq 2.24	sq 38.1	sq 1.50	8233FONE12N15INSQ
							sq 40.0	sq 1.57	8233FONE12N40MMSQ
					ø110.0	ø4.33	ø 40.0/ø70.0	ø1.57/2.76	8233FONE12NBB
					sq 85.0	sq 3.35	sq 50.8	sq 2.00	8233FONE12NBB20INSQ
							sq 60.0	sq 2.36	8233FONE12NBB60MMSQ
13	159.2	6.27	163.6	6.44	ø70.0	ø2.76	ø18.0/40.0*	ø0.71/1.57*	8233FONE13N
					sq 57.0	sq 2.24	sq 38.1	sq 1.50	8233FONE13N15INSQ
							sq 40.0	sq 1.57	8233FONE13N40MMSQ
					ø120.0	ø4.72	ø 40.0/ø70.0	ø1.57/2.76	8233FONE13NBB
					sq 85.0	sq 3.35	sq 50.8	sq 2.00	8233FONE13NBB20INSQ
							sq 60.0	sq 2.36	8233FONE13NBB60MMSQ
16	195.3	7.69	200.5	7.89	ø70.0	ø2.76	ø18.0/40.0*	ø0.71/1.57*	8233FONE16N
					sq 57.0	sq 2.24	sq 38.1	sq 1.50	8233FONE16N15INSQ
							sq 40.0	sq 1.57	8233FONE16N40MMSQ
					ø120.0	ø4.72	ø 40.0/ø70.0	ø1.57/2.76	8233FONE16NBB
					sq 85.0	sq 3.35	sq 50.8	sq 2.00	8233FONE16NBB20INSQ
							sq 60.0	sq 2.36	8233FONE16NBB60MMSQ
							sq 63.5	sq 2.50	8233FONE16NBB25INSQ

* Minimum/maximum round bore.

Standard Sprockets



uni Flex ONE Sprocket

Width of sprockets: 39.0 mm (1.54 in.)

Tooth width: 9.0 mm (0.35 in.)

Standard Material and Color

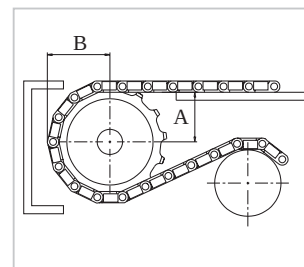
PA6

G

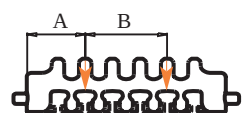
uni-chains® provides an extensive range of sprockets to drive the uni Flex ONE belts. During years of field experience the sprocket profiles have been developed to ensure maximum operating performance.

Placement of Wearstrips and Sprockets

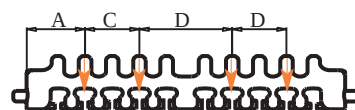
No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
8	36.5	1.44	58.9	2.32
9	42.8	1.69	64.9	2.56
11	55.3	2.18	76.9	3.03
12	61.6	2.43	82.9	3.26
13	67.8	2.67	88.9	3.50
16	86.2	3.40	107.0	4.21



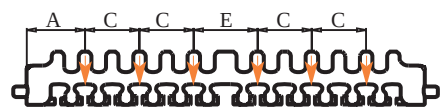
Placement and Number of Sprockets



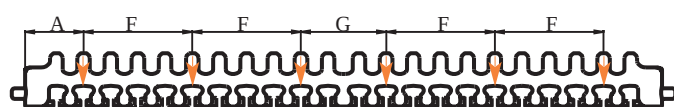
uni Flex ONE K750



uni Flex ONE K1200



uni Flex ONE K1500



uni Flex ONE K2400

	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

Standard Selection Accessories



uni Flex ONE Idler

Thickness of Idler: 20.0 mm (0.79 in.)

Standard Material and Color

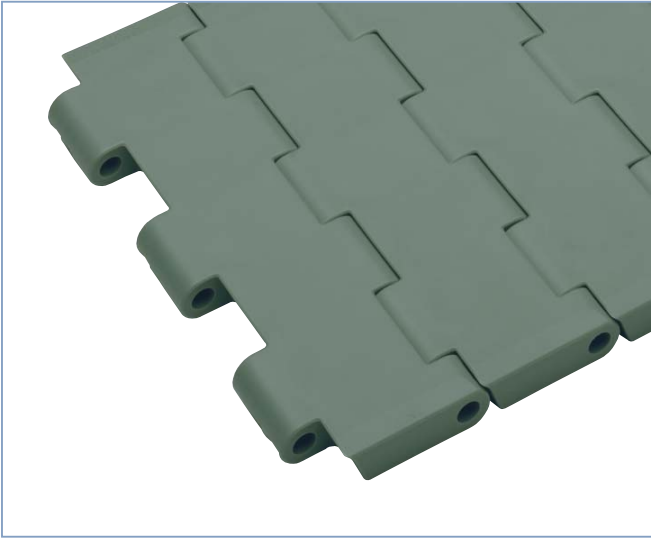
POM-D

N

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.

Pitch 38.1 mm (1.50 in.)



uni SSB – strong and solid wear resistant belt

The uni SSB 1.5 in. pitch belt was created to be used in heavy duty applications such as accumulation tables, packaging applications or other areas where wear resistance is needed. 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.

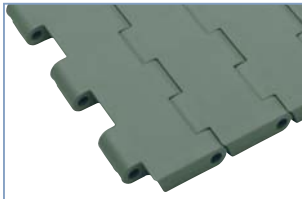
The uni SSB belt has increased performance in the following industries/applications:

- 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 palletizers infeed conveyors
- Material handling applications including mass handling, accumulation tables, palletizers and packaging areas

Product features and operational benefits:

- Closed and wide hinge design increases product stability and decreases pin wear
- Chamfered edges allow stability in side transfer applications
- Unique locking systems (no pin walking or pins coming out)
- Unique open area for cooling conveyors and incline drainage applications

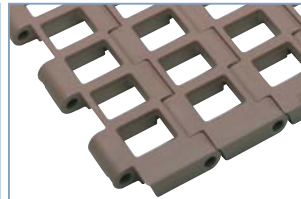
Standard Selection



uni SSB C



uni SSB 29%



uni SSB 32%

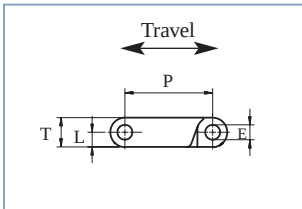


uni SSB TAB

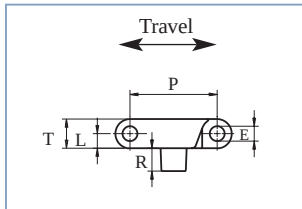
Dimensions

	mm	in.		mm	in.		mm	in.
A	10.0	0.39	D	19.6	0.77	P	38.1	1.50
B	4.0	0.16	E	6.5	0.26	R	10.0	0.39
C	35.2	1.39	L	6.4	0.25	T	12.7	0.50

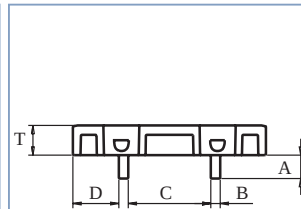
Dimensional Sketches



uni SSB



uni SSB TAB



uni SSB TAB



Straight running



38.1 mm (1.50 in.)



See page 7 and 8



45 mm (1.8 in.)



See page 72



See page 72



See page 129

Alternative


PP W
SS304

Accessories



See page 71

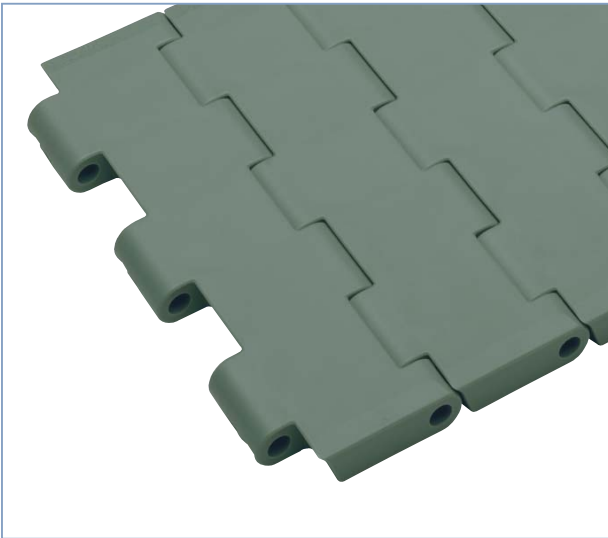
Standard Materials and Colors

Type	Standard materials and colors	Standard pins	Standard locks
		Materials and colors	Materials and colors
uni SSB C and uni SSB TAB	POM-LF BR	 GR 	 PP 
	PP G	 GR 	 PP 
uni SSB 29%	POM-LF BR	 GR 	 PP 
	PP G	 GR 	 PP 
uni SSB 32%	POM-LF BR	 GR 	 PP 
	PP G	 GR 	 PP 

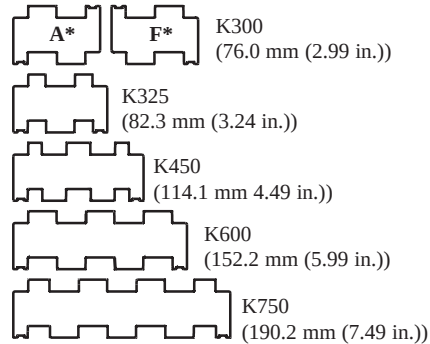
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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	44.9	1747	68.8	2355	92.7	2963	116.6
607	23.9	1216	47.9	1823	71.8	2431	95.7	3039	119.6

uni SSB Single Link®



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



*Depending on the width the SSB belt is bricklaid with 2 different K300 modules called "A" and "F."
For belt widths that are multiples of 6 in. an "A" and an "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.

Standard Single Link® Belt Widths

Belt type and widths	K300	K325	K450	K600	K750
uni SSB C	X	SLO	SLO	X	SLO
uni SSB C TAB		SLO			
uni SSB 29%	X			X	
uni SSB 32%	X			X	

SLO = Single Link® only

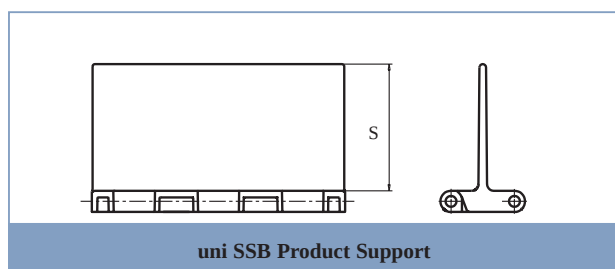
Permissible Tensile Strength

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

Belt Weights

Belt material	POM						PP					
Pin material	GR		PP		steel		GR		PP		steel	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni SSB	11.3	2.31	11.1	2.27	13.6	2.79	11.3	2.31	11.1	2.27	13.6	2.79

Standard Selection Accessories



Standard Materials, Colors and Dimensions

Height S		Style	Width		
mm	in.		mm	in.	
76.1	3.00	flat	K600	152.2	5.99
PP-I		G			

Minimum bricklaid indent for uni SSB product support is 50.8 mm (2.00 in.).
Increment: 25.4 mm (1.00 in.).

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	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	1633SSB19N
21	129.3	5.09	130.0	5.12	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	1633SSB21N
23	141.2	5.56	142.0	5.59	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	1633SSB23N
25	153.2	6.03	154.2	6.07	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	1633SSB25N

* Minimum/maximum round bore.



uni SSB sprocket

Width of sprockets: 42.3 mm (1.67 in.)

Tooth width: 15.0 mm (0.59 in.)

Standard Material and Color

PA6

N

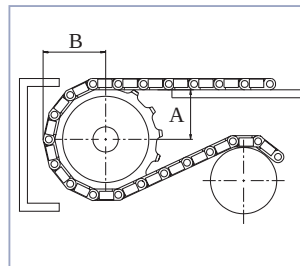
Other sprocket sizes are available upon request. Two-part sprockets available upon request.

Please contact uni-chains® for further information.

Note: uni SSB can also be driven by uni 820 chain sprockets except uni SSB-K325 and K450.

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
19	65.4	2.57	49.5	1.95
21	71.4	2.81	55.8	2.20
23	77.4	3.05	62.1	2.44
25	83.4	3.28	68.3	2.69



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*	1633SSB19NT
21	129.3	5.09	130.0	5.12	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	1633SSB21NT
23	141.2	5.56	142.0	5.59	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	1633SSB23NT
25	153.2	6.03	154.2	6.07	58.0	2.28	ø18.0/40.0*	ø0.71/1.57*	1633SSB25NT

* Minimum/maximum round bore.


uni SSB sprocket
Two-part single row

Width of sprockets: 42.3 mm (1.67 in.)

Tooth width: 15.0 mm (0.59 in.)

Standard Material and Color

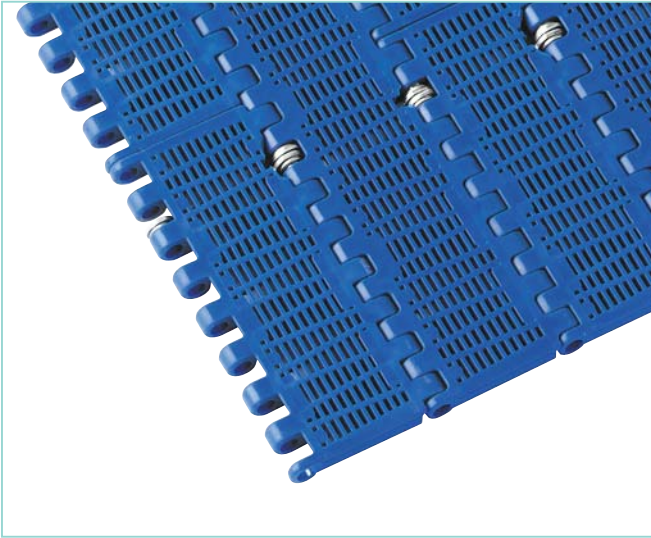
PA6

N

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

Please contact uni-chains® for further information.

Pitch 38.1 mm (1.50 in.)



uni Light EP – light duty application belt

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

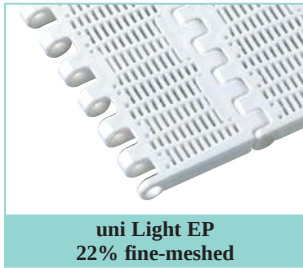
The uni Light EP belt is commonly used in the following industries/applications:

- 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:

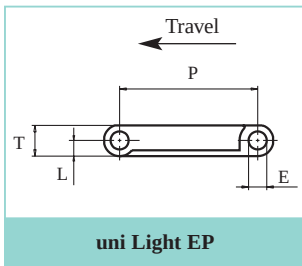
- Various openings including fine-mesh for water drainage
- Steel reinforcement feature eliminates belt elongation in high temperature applications
- Reinforced product supports for high load elevators and incline conveyors

Standard Selection



Reinforcement Links: See page 75 for further information.

Dimensional Sketches



Dimensions

	mm	in.
E	5.1	0.20
L	4.3	0.17
P	38.1	1.50
T	8.5	0.34



Straight running



38.1 mm (1.50 in.)



Patented



See page 9



75 mm (3.0 in.)



See page 76



See page 129

Alternative



PE W
SS304



PP W

Accessories



SS316

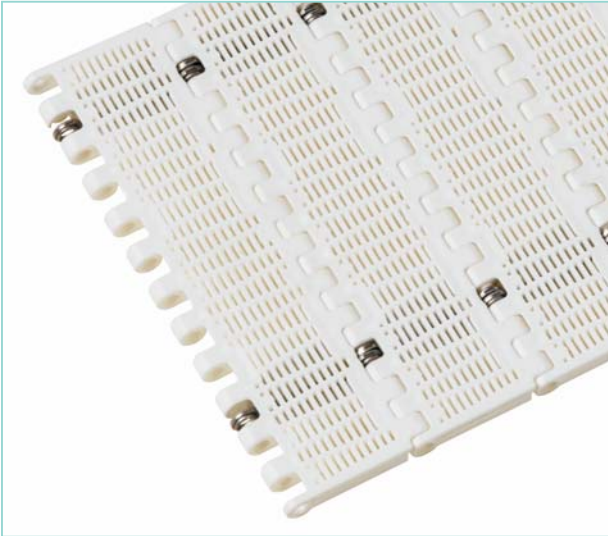
Standard Materials and Colors

Type	Standard materials and colors	Standard pins	Standard locks
		Materials and colors	Materials and colors
uni Light EP 22% fine-meshed	PPHW W	 PP W	 PP W
	PPHW B	 PP W	 PP W

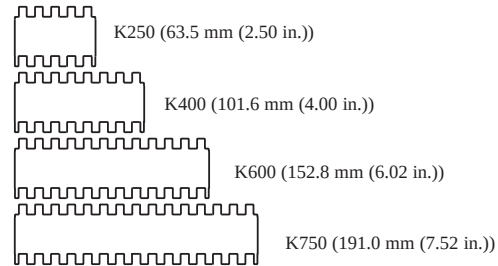
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
102	4.0	661	26.0	1170	46.0	1678	66.0	2186	86.0
152	6.0	712	28.0	1220	48.0	1728	68.0	2236	88.0
254	10.0	763	30.0	1271	50.0	1779	70.0	2287	90.0
305	12.0	814	32.0	1322	52.0	1830	72.0	2338	92.0
355	14.0	865	34.0	1373	54.0	1881	74.0	2389	94.0
406	16.0	916	36.0	1424	56.0	1932	76.0	2440	96.0
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	44.0	1627	64.0	2135	84.0	-	-

uni Light EP Single Link®



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



Permissible Tensile Strength

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

Load Capacity per Reinforcement Link

	N/pcs	lb/pcs
uni Light EP 22% fine-meshed	1000	225



The use of uni-chains® belt 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 1 reinforcement link per K600 module.

Belt Weights

Belt material	POM				PP				PE			
	plastic		steel		plastic		steel		plastic		steel	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni Light EP 22% fine-meshed	4.8	0.98	8.4	1.72	3.4	0.70	7.0	1.43	3.6	0.74	7.2	1.48

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*	2533EP07N
9	111.4	4.39	110.6	4.35	90.0	3.54	ø18.0/70.0*	ø0.71/2.76*	2533EP09N
							sq 38.1	sq 1.50	2533EP09N15INSQ
10	123.3	4.85	122.7	4.83	100.0	3.94	ø18.0/70.0*	ø0.71/2.76*	2533EP10N
							sq 38.1	sq 1.50	2533EP10N15INSQ
							sq 40.0	sq 1.57	2533EP10N40MMSQ
11	135.2	5.32	134.9	5.31	110.0	4.33	ø18.0/70.0*	ø0.71/2.76*	2533EP11N
12	147.2	5.80	147.1	5.79	120.0	4.72	ø18.0/70.0*	ø0.71/2.76*	2533EP12N
							sq 38.1	sq 1.50	2533EP12N15INSQ
							sq 40.0	sq 1.57	2533EP12N40MMSQ
15	183.3	7.22	183.6	7.23	120.0	4.72	ø18.0/40.0*	ø0.71/1.57*	2533EP15N

* Minimum/maximum round bore.



Standard Material and Color

PA6

N

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

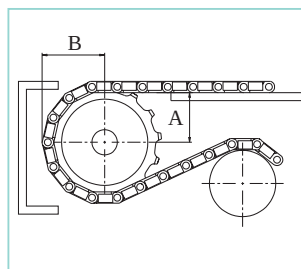
Please contact uni-chains® for further information.

Width of sprockets: 23.2 mm (0.91 in.)

Tooth width: 11.8 mm (0.47 in.)

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	2.62
15	96.0	3.78	85.3	3.36



Pitch 50.0 mm (1.97 in.)



uni L-SNB – the heavy duty open top and rib top belt

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

The uni L-SNB 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, 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
- Large open area for easy drainage
- Steel reinforcement feature reduces belt elongation in high temperature applications
- Easy cleaning – less maintenance and downtime
- Finger plates for trouble free transfer
- Small backflex radius for lower profile conveyors

Standard Selection



uni L-SNB

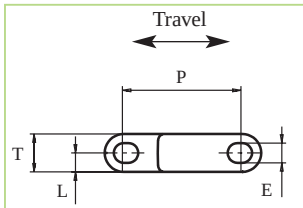
Surface opening 36%



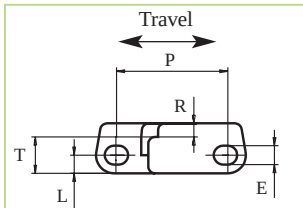
uni L-SNB Rib

Surface opening 36%

Dimensional Sketches



uni L-SNB



uni L-SNB Rib

Dimensions

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



Straight running



50.0 mm (1.97 in.)



Patented



See page 7 and 8



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



See page 80



See page 129

Alternative



PE W
SS304

Accessories



See page 81



SS316

Standard Materials and Colors

Type	Standard materials and colors	Standard pins	Standard locks
		Materials and colors	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

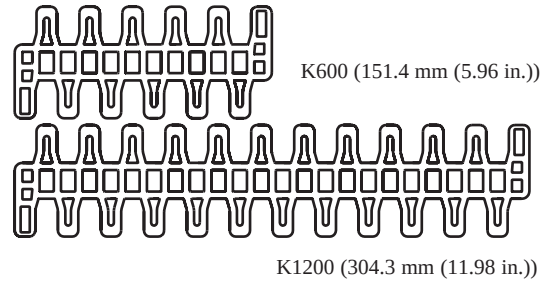
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni L-SNB Single Link®



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



Permissible Tensile Strength

Belt material	POM		PP	
	N/m	lb/ft	N/m	lb/ft
uni L-SNB	35000	2398	17500	1199
uni L-SNB-Rib	55000	3768	29800	2042

Load Capacity per Reinforcement Link

	N/pcs	lb/pcs
uni L-SNB	2500	247



The use of uni-chains® belt 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 3 reinforcement links per K1200 module.

Belt Weights

Belt material	POM				PP				PE			
	plastic		steel		plastic		steel		plastic		steel	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni L-SNB	10.2	2.09	17.1	3.50	6.7	1.37	13.8	2.83	7.1	1.45	14.0	2.87
uni L-SNB-Rib	14.8	3.03	21.8	4.46	9.8	2.01	16.7	3.42	10.1	2.07	17.0	3.48

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	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	2033LSNB06N
8	130.7	5.15	128.6	5.06	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	2033LSNB08N
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	2033LSNB08NBB
10	161.8	6.37	159.8	6.29	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	2033LSNB10N
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	2033LSNB10NBB
12	193.2	7.61	192.5	7.58	75.0	2.95	ø18.0/40.0*	ø0.71/1.57*	2033LSNB12N
					120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	2033LSNB12NBB
16	256.3	10.09	257.3	10.13	120.0	4.72	ø40.0/70.0*	ø1.57/2.76*	2033LSNB16NBB

* Minimum/maximum round bore.



Standard Material and Color

PA6

N

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

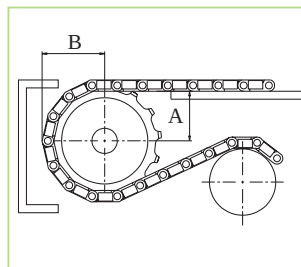
Please contact uni-chains® for further information.

Width of sprockets: 42.3 mm (1.67 in.)

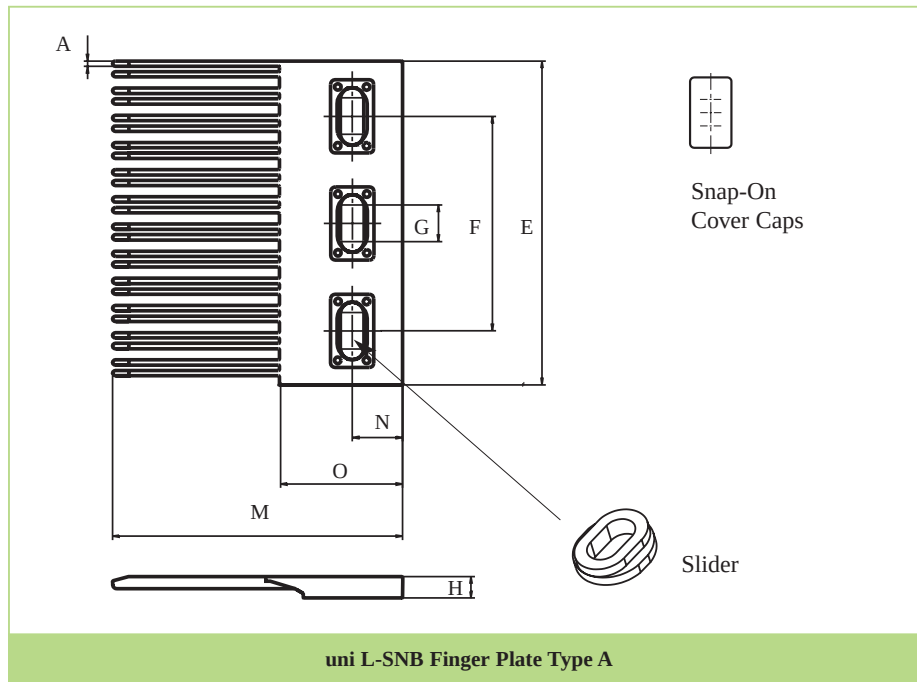
Tooth width: 7.0 mm (0.28 in.)

Placement of Wearstrips and Sprockets

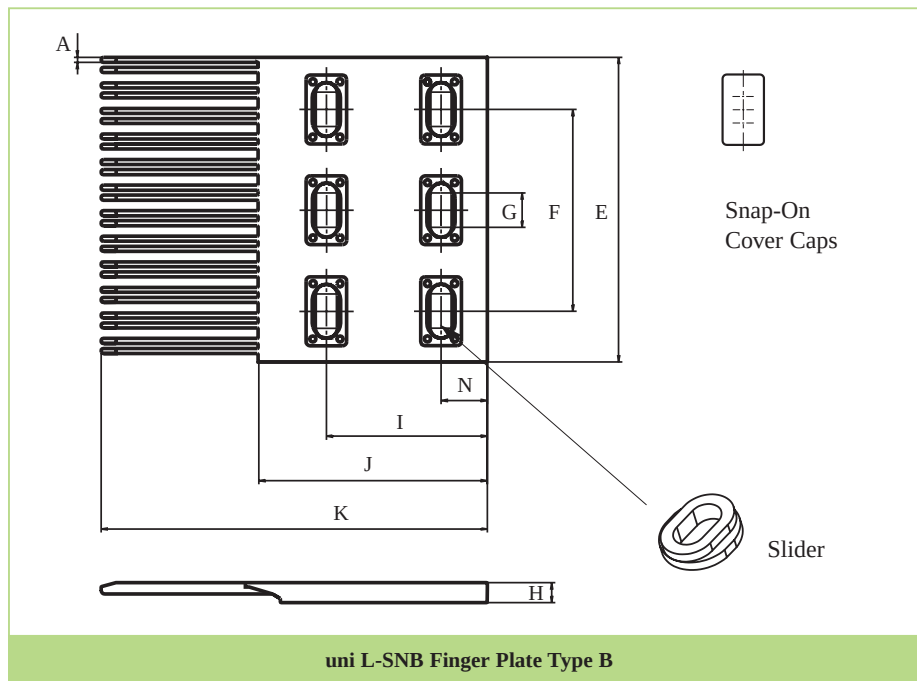
No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	58.0	2.28	35.3	1.39
8	73.3	2.89	52.4	2.06
10	88.9	3.50	69.0	2.72
12	104.6	4.12	85.3	3.36
16	136.1	5.36	117.7	4.63



Standard Selection Accessories



Standard Materials and Colors

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


Standard Materials and Colors

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

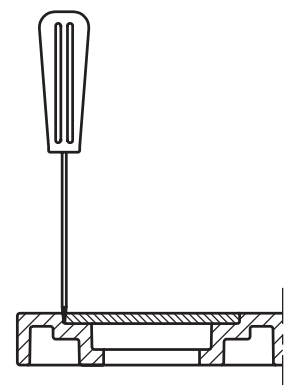
Dimensions

	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	2.24

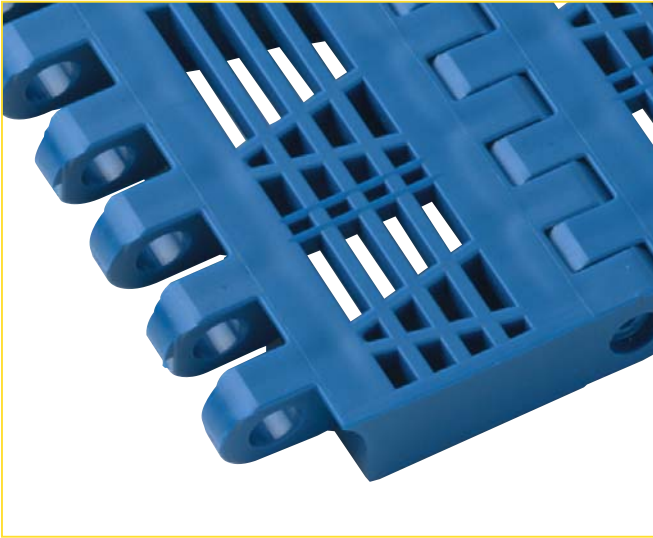
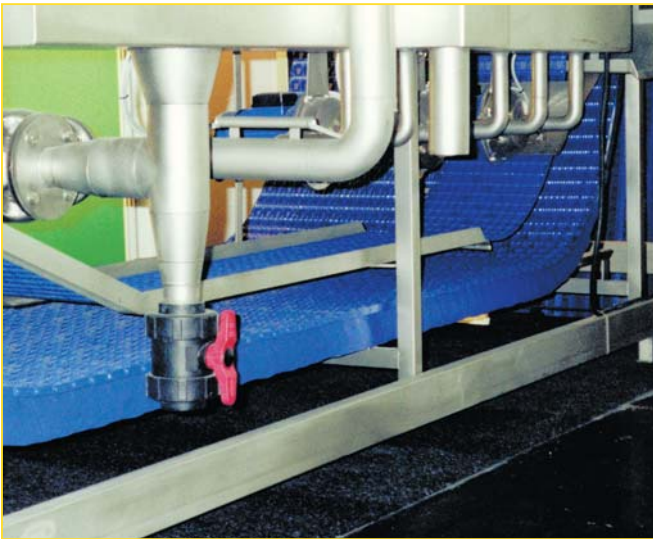
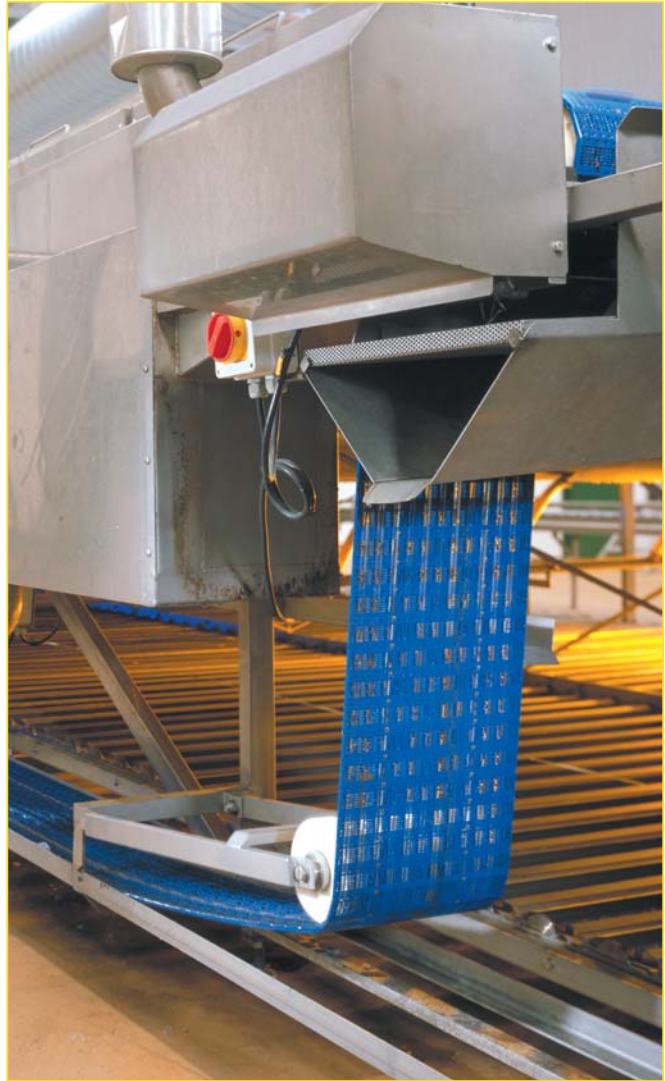
All uni-chains® belt systems that are available in a raised rib version can be supplied with matching finger plates, also called combs.

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 plate.

In order to adjust to belt width variations caused by temperature fluctuations, a slider facilitates the side-ways movement of the finger plates.



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.

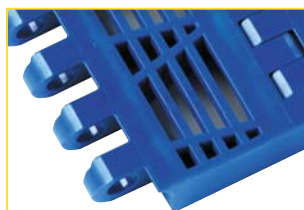
The uni OPB belt is commonly used in the following industries/applications:

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

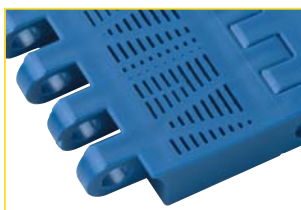
Product features and operational benefits:

- Small or large opening including fine mesh for water drainage
- Steel reinforcement feature reduces belt elongation 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

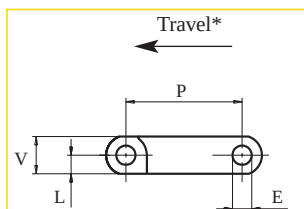


uni OPB 4V-36%

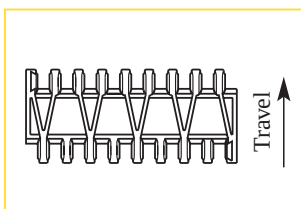
Note: uni OPB 4V-23%, uni OPB 4V 23% Rib and uni OPB 4V-36% are listed in the USDA "Accepted Meat and Poultry Equipment" publication as accepted for food contact.

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

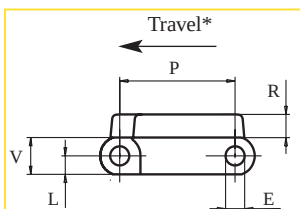
Dimensional Sketches



uni OPB 4V



Bottom uni OPB 4V



uni OPB 4V-Rib

Dimensions

	mm	in.		mm	in.		mm	in.
E	8.3	0.33	P	50.0	1.97	V	16.0	0.63
L	8.0	0.31	R	10.0	0.39	-	-	-



Straight running



50.0 mm (1.97 in.)



Patented



See page 7, 8 and 9


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


See page 85



See page 129

Alternative


PP W G B
PE W B

PP W PE W
SS316

Accessories



See page 86



See page 86



See page 87



SS316

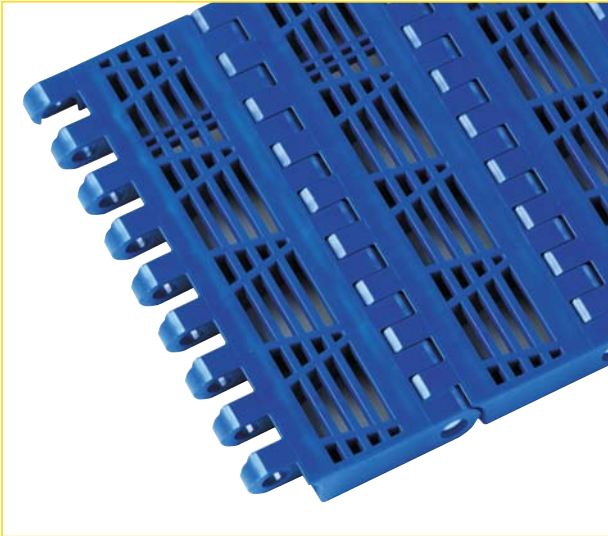
Standard Materials and Colors

Type	Standard materials and colors	Pins	
		Materials and colors	
uni OPB 4V-23%	PPHW B	PP	W
uni OPB 4V-23% fine meshed	PPHW B	PP	W
uni OPB 4V-23% Rib	PP G	PP	W
uni OPB 4V-36%	PP W	PP	W

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

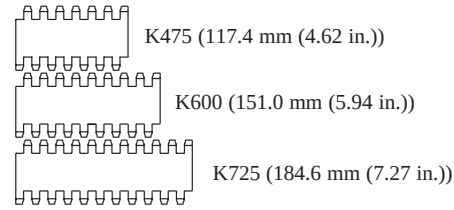
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
151	5.9	452	17.8	754	29.7	1055	41.5	2262	89.1
185	7.3	486	19.1	788	31.0	1206	47.5	2413	95.0
268	10.6	503	19.8	804	31.7	1357	53.4	2564	100.9
302	11.9	536	21.1	872	34.3	1508	59.4	2714	106.9
335	13.2	570	22.4	905	35.6	1659	65.3	2865	112.8
386	15.2	603	23.7	938	36.9	1810	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

uni OPB Single Link®



Standard Single Link® Belt Widths

uni OPB is also available as Single Link® in the following standard 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 4V-23% Rib		X	
uni 4V-36%		X	

Permissible Tensile Strength

Belt material	POM		PP		PE	
	N/m	lb/ft	N/m	lb/ft	N/m	lb/ft
uni OPB 4V	22000	1507	11000	754	6600	452

Load Capacity per Reinforcement Link

	N/pcs	lb/pcs
uni OPB	2500	247



The use of uni-chains® belt 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 1 reinforcement link per K600 module.

Belt Weights

Belt material	POM				PP				PE			
	plastic		steel		plastic		steel		plastic		steel	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni OPB 23%/fine-meshed	10.1	2.07	16.1	3.30	6.9	1.41	13.4	2.74	7.3	1.50	13.8	2.83
uni OPB Rib	14.6	3.00	21.1	4.32	9.3	1.91	15.7	3.22	10.1	2.07	16.5	3.37
uni OPB 36%	9.5	1.95	15.3	3.13	6.3	1.29	12.8	2.62	6.7	1.37	13.2	2.70

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*	2433OPBS06N
							sq 38.1	sq 1.50	2433OPBS06N15INSQ
							sq 40.0	sq 1.57	2433OPBS06N40MMSQ
8	130.7	5.15	129.0	5.08	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	2433OPBS08N
							sq 38.1	sq 1.50	2433OPBS08N15INSQ
							sq 40.0	sq 1.57	2433OPBS08N40MMSQ
10	161.8	6.37	160.1	6.30	65.0	2.56	ø18.0/40.0	ø0.71/1.57*	2433OPBS10N
							sq 38.1	sq 1.50	2433OPBS10N15INSQ
							sq 40.0	sq 1.57	2433OPBS10N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	ø1.57/2.76*	2433OPBS10NBB
12	193.2	7.61	191.5	7.54	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	2433OPBS12N
							sq 38.1	sq 1.50	2433OPBS12N15INSQ
							sq 40.0	sq 1.57	2433OPBS12N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	ø1.57/2.76*	2433OPBS12NBB
13	208.9	8.22	207.3	8.16	72.0	2.83	ø18.0/40.0*	ø0.71/1.57*	2433OPBS13N
					150.0	5.91	sq 38.1	sq 1.50	2433OPBS13NBB
16	256.3	10.09	254.9	10.04	120.0	4.72	ø40.0/ø70.0*	ø1.57/2.76*	2433OPBS16NBB

* Minimum/maximum round bore.



uni OPB sprocket

Standard Material and Color

PA6

N

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

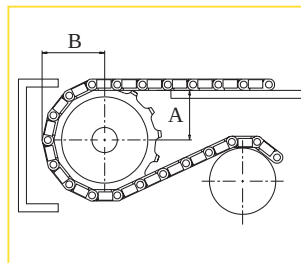
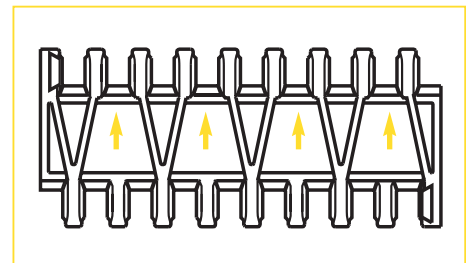
Please contact uni-chains® for further information.

Width of sprockets: 42.3 mm (1.67 in.)

Tooth width: 11.0 mm (0.43 in.)

Placement of Wearstrips and Sprockets

No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
6	58.5	2.30	35.3	1.39
8	73.8	2.91	52.4	2.06
10	89.4	3.52	68.9	2.71
12	105.1	4.14	85.3	3.36
13	113.0	4.45	93.4	3.68
16	136.6	5.38	117.7	4.63



Standard Selection Accessories



uni OPB Product Support No Cling

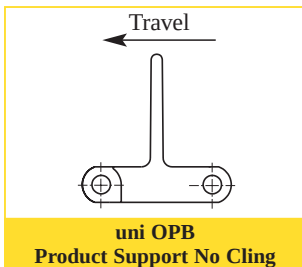
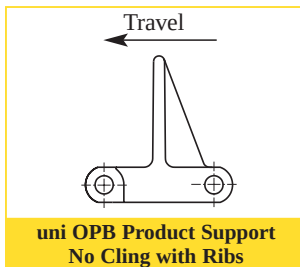


uni OPB Product Support No Cling with Ribs

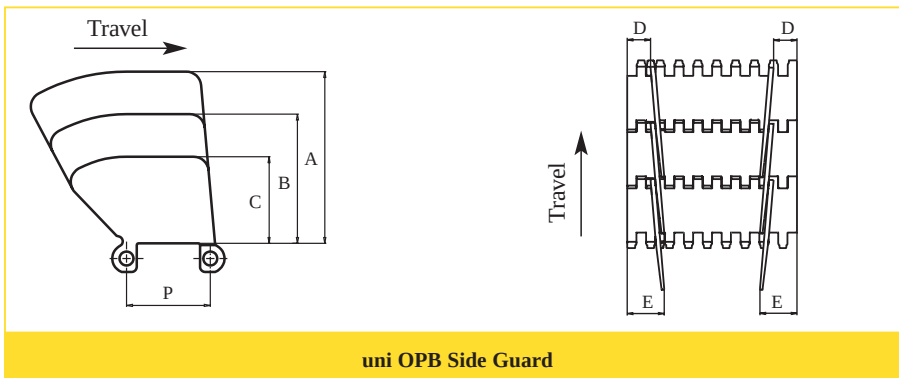
Standard Materials, Colors and Dimensions

Style	Height		Width			Standard materials & colors
	mm	in.		mm	in.	PPHW
OPB 4V PS No Cling	50.8	2.00	K600	151.0	5.94	B
	76.2	3.00				
	101.6	4.00				
OPB 4V PS No Cling with Ribs	50.8	2.00	K600	151.0	5.94	B
	76.2	3.00				
	101.6	4.00				
OPB 4V-23F PS No Cling	101.6	4.00	K600	151.0	5.94	B
OPB 4V-23F PS No Cling with Ribs	76.2	3.00	K600	151.0	5.94	B
	101.6	4.00				

Dimensional Sketches


uni OPB
Product Support No Cling

uni OPB Product Support
No Cling with Ribs

Standard Selection Accessories



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

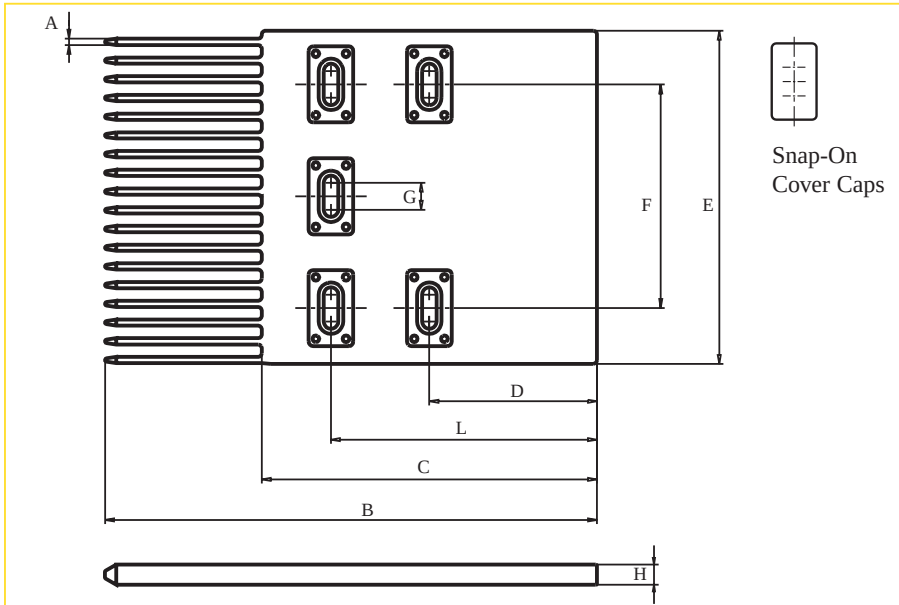
* Min. indent.
Increment: 8.4 mm (0.33 in.).

Standard Material and Color

PA6

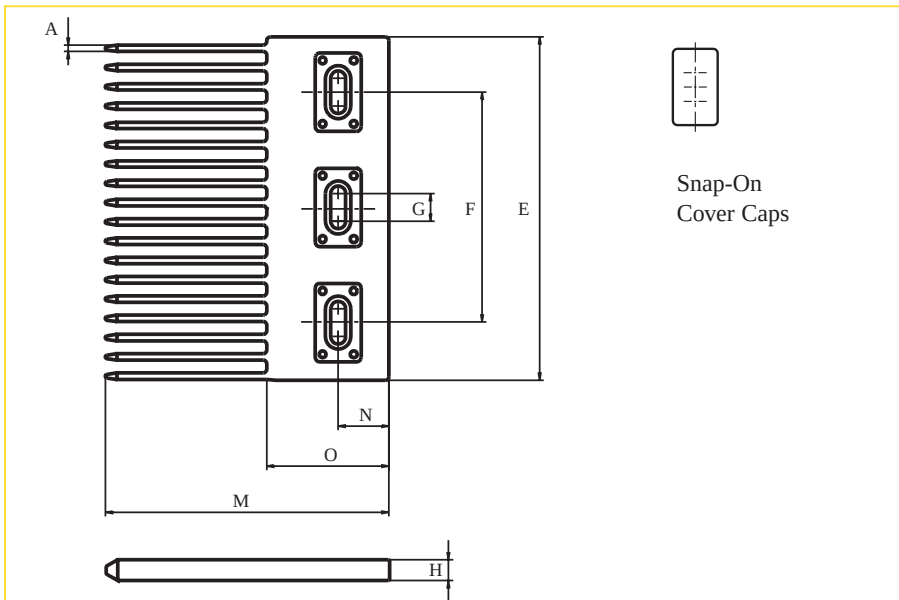
B

Standard Selection Accessories



uni OPB Finger Plate Type 1A

Standard Materials and Colors

POM-DI G


uni OPB Finger Plate Type 2

Standard Materials and Colors

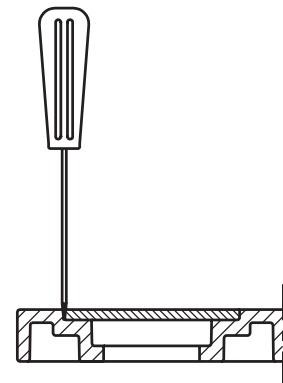
POM-DI G

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

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 plate.



Pitch 50.8 mm (2.00 in.)



uni CPB – a strong and wear resistant belt

The uni CPB 2 in. pitch, straight running belt was created 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, leak tests
- Carwash applications including carwash, interior detailing areas
- Material handling applications including pallet handling and other heavy duty product applications
- Meat (beef & pork) applications 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 – unique locking system (lockpin)
- Reduced noise level
- Extremely wear and impact resistant
- Unique sprocket engagement allows long conveyors with reduced pulsation
- Rough top surface reduces slippage and allows safe movements

Standard Selection



uni CPB C

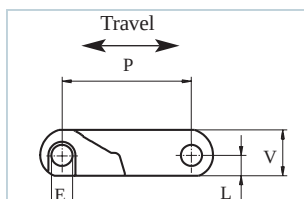


uni CPB 20% Rough

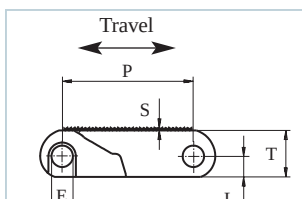


uni CPB C Rough

Dimensional Sketches



uni CPB C



uni CPB 20% Rough, C Rough

Dimensions

	mm	in.
E	8.3	0.33
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



Straight running



50.8 mm (2.00 in.)



See page 7 and 8



85 mm (3.3 in.)



See page 91 and 92



See page 129

Accessories



See page 90

Standard Materials and Colors

Type	Standard materials and colors	Pins	
		Material and color	
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

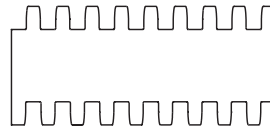
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni CPB Single Link®



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



K600 (150.5 mm (5.93 in.))

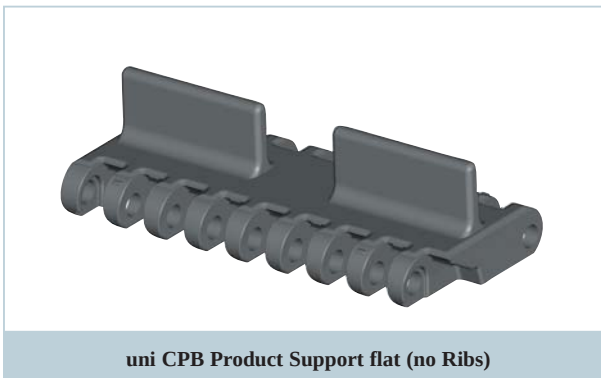
Permissible Tensile Strength

Belt material	POM		PP	
Pin material	PA6.6		PA6.6	
	N/m	lb/ft	N/m	lb/ft
uni CPB C, 20% /C Rough	52000	3563	35000	2398

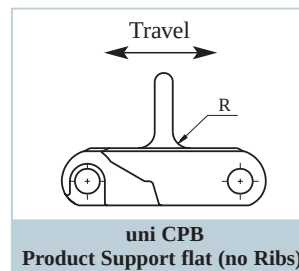
Belt Weights

Belt material	POM		PP	
Pin material	PA6.6		PA6.6	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni CPBC, 20%/C Rough	16.6	3.40	11.1	2.27

Standard Selection Accessories



Dimensional Sketch



Dimensions

	mm	in.
R	5.5	0.22

Distance between product support is 30.0 mm (1.18 in.).

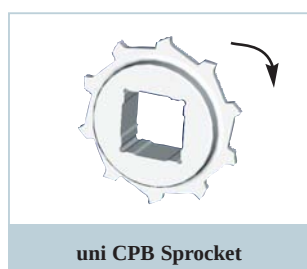
Standard Materials, Colors and Dimensions

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

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*	1833MPB06N
							sq 38.1	sq 1.50	1833MPB06N15INSQ
							sq 40.0	sq 1.57	1833MPB06N40MMSQ
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB08N
							sq 38.1	sq 1.50	1833MPB08N15INSQ
							sq 40.0	sq 1.57	1833MPB08N40MMSQ
							sq 50.8	sq 2.00	1833MPB08N20INSQ
10	164.4	6.47	165.8	6.53	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB10N
							sq 38.1	sq 1.50	1833MPB10N15INSQ
							sq 40.0	sq 1.57	1833MPB10N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	ø1.57/2.76*	1833MPB10NBB
							sq 50.8	sq 2.00	1833MPB10NBB20INSQ
							sq 63.5	sq 2.50	1833MPB10NBB25INSQ
							sq 60.0	sq 2.36	1833MPB10NBB60MMSQ
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB12N
							sq 38.1	sq 1.50	1833MPB12N15INSQ
							sq 40.0	sq 1.57	1833MPB12N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	1.57/2.76*	1833MPB12NBB
							sq 50.8	sq 2.00	1833MPB12NBB20INSQ
							sq 40.0	sq 1.57	1833MPB12NBB40MMSQ
							sq 60.0	sq 2.36	1833MPB12NBB60MMSQ
16	260.4	10.25	255.0	10.04	72.0	2.83	ø18.0/40.0*	ø0.71/1.57*	1833MPB16N
					150.0	5.91	ø40.0/ø70.0*	1.57/2.76*	1833MPB16NBB

* Minimum/maximum round bore.



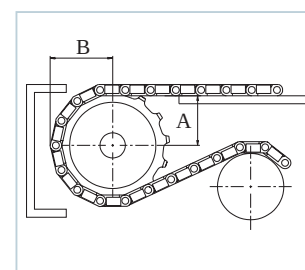
uni CPB Sprocket

Width of sprockets: 42.3 mm (1.67 in.)

Tooth width: 9.5 mm (0.37 in.)

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



Standard Material and Color

PA6 N

Max. Load per Sprocket

Belt material	POM	
	N	lb
uni CPB	2500	560

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

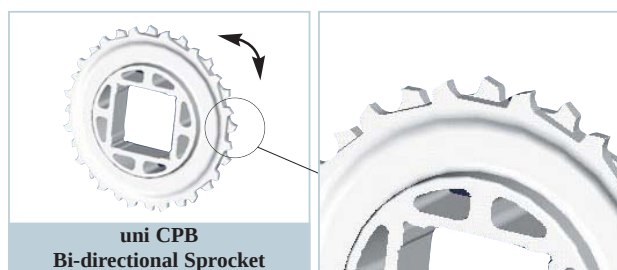
Please contact uni-chains® for further information.

Please note, if travel is in both directions, an extra set of sprockets is required or use Bi-directional options. (See next page.)

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	165.8	6.53	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB10NR2
							sq 38.1	sq 1.50	1833MPB10NR215INSQ
							sq 40.0	sq 1.57	1833MPB10NR240MMSQ
					120.0	4.72	ø40.0/ø70*	ø1.57/2.76*	1833MPB10NBBR2
							sq 60.0	sq 2.36	1833MPB10NBBR260MMSQ
							sq 63.5	sq 2.50	1833MPB10NBBR225INSQ
12	196.3	7.73	198.6	7.82	120.0	4.72	sq 60.0	sq 2.36	1833MPB12NBBR260MMSQ
16	260.4	10.25	255.0	10.04	120.0	4.72	sq 60.0	sq 2.36	1833MPB16NBBR260MMSQ
							sq 90.0	sq 3.54	1833MPB16NBBR290MMSQ

* Minimum/maximum round bore.



Width of sprockets:
10 - 12 teeth: 42.3 mm (1.67 in.)
16 teeth: 40.8 mm (1.61 in.)

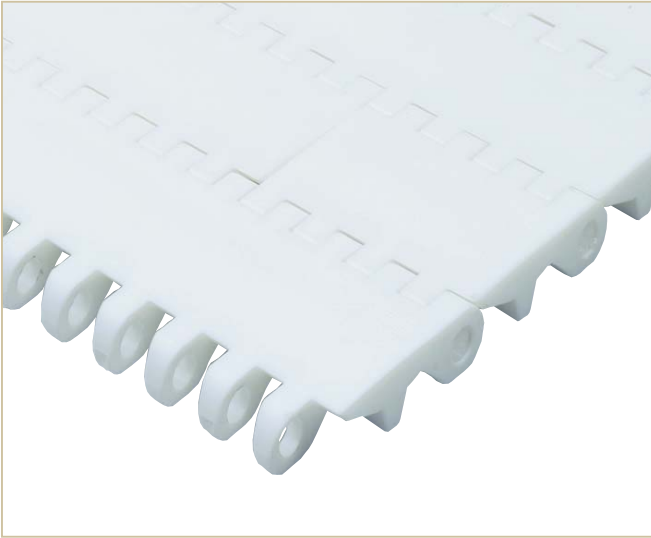
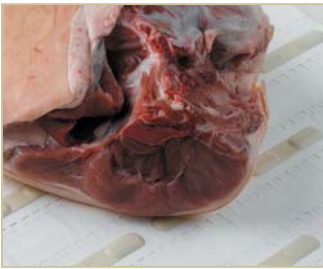
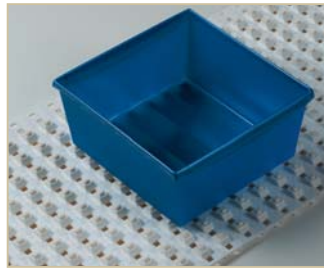
Standard Material and Color

PA6 N

Other sprocket sizes are available upon request.

Please contact uni-chains® for further information.

Pitch 50.8 mm (2.00 in.)



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

The uni MPB belt is the most cleanable, 2 in. pitch, straight running modular plastic belt in the world and the belt holds the most current NSF/USDA acceptance. 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 (beef & pork) applications 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

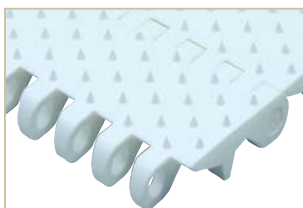
Product features and operational benefits:

- Easy to clean Single Link® belt reduces downtime for cleaning up to 70%
- Single Link® belt (no brick lay) reduces bacteria growth and Single Link® belt eliminates knives sticking in belt seams
- Unique locking system (lockpin) – faster, simpler maintenance
- Unique sprocket engagement – higher product load and longer conveyors
- Strong and thick product supports allow more load without breakage
- Stick and non stick surfaces allow optimized product throughput
- Easy to clean roller top for long crate/box conveyors

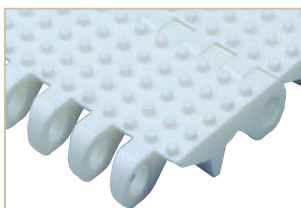
Standard Selection



uni MPB C



uni MPB-G*



uni MPB-N*



uni MPB 18%



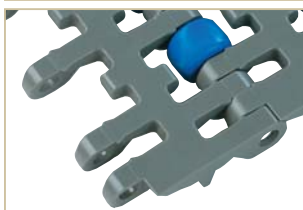
uni MPB 20%



uni MPB 22%



uni MPB PRR



uni MPB RO


uni MPB Rubber Top
Type RB4

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



Straight running



50.8 mm (2.00 in.)



Patented



See page 7, 8 and 9


65 mm (2.6 in.)
With sideguard:
200 mm (7.9 in.)


See page 98 and 99



See page 129


01 **N** See page 11

Alternative


PP **W** PE **W**
SS304

Accessories



See page 101

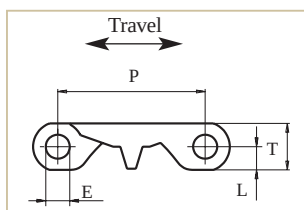


See page 100

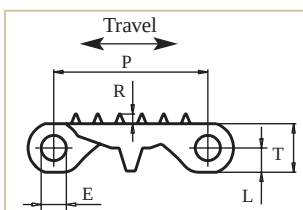


See page 101

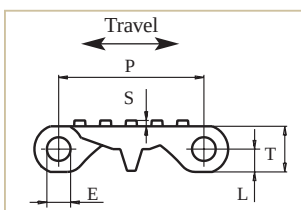
Dimensional Sketches



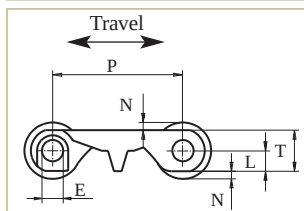
uni MPB C, 18%, 20%, 22%



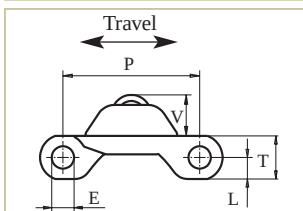
uni MPB G/GE



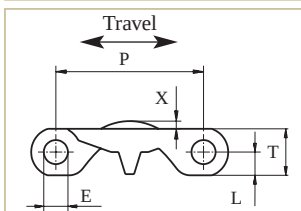
uni MPB N/NE



uni MPB RO



uni MPB PRR



uni MPB Rubber Top

Dimensions

	mm	in.
E	8.3	0.33
L	8.0	0.31
N	3.0	0.12
P	50.8	2.00
R	3.2	0.13
S	2.0	0.08
T	16.0	0.63
V	15.3	0.60
X	3.5	0.14

Standard Materials and Colors

Type	Standard materials and colors	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/GE	POM-DI W	 PP W	
uni MPB-N/NE	PE-I N	 PE W	
uni MPB 18%	POM-DI W	 PP W	
	PP W	 PP W	
	PE-I N	 PE W	
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 PRR*	POM-DI W	 PP W	
	POM-DI W	 PA6.6 N	
uni MPB RO**	POM-DI G	 PA6.6 N	
uni MPB Rubber Top	POM-DI W + 01 N	 PA6.6 N	

* Standard materials for uni MPB PRR

Baseline: POM-DI W
 Rollers: PA6.6 W
 Roller bed: POM-DI W
 Roller pins: SS304

** Standard materials for uni MPB RO

Rollers: POM-DI B

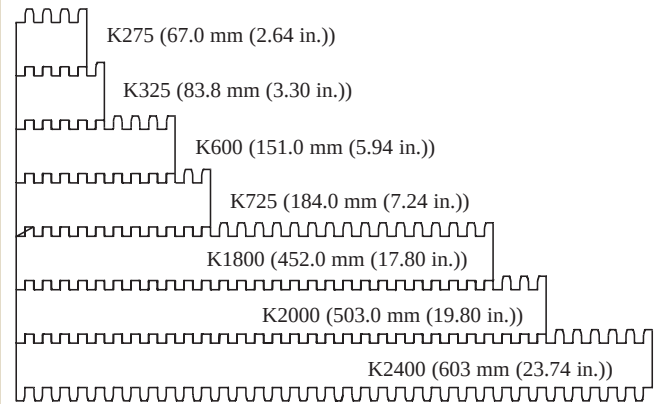
Standard Bricklayered Belt Widths (See next page for Single Link® widths)

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	-	-

uni MPB Single Link®



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



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 18%	X	X	X	X			
uni MPB 20%	X	X	X	X			
uni MPB 22%			X	X			
uni MPB-G/GE			X				
uni MPB-N/NE			X				
uni MPB PRR			X				
uni MPB RO			X	X			
uni MPB Rubber Top			X				

Permissible Tensile Strength

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

Belt Weights

Belt material	POM		PP		PE	
Pin material	plastic		plastic		plastic	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni MPBC, G, GE, N, NE and Rubber Top	11.9	2.44	8.3	1.70	8.8	1.80
uni MPB 18%	11.1	2.27	7.5	1.54	8.0	1.64
uni MPB 20%	11.2	2.29	7.4	1.52	7.9	1.62
uni MPB 22%	10.8	2.21	7.2	1.47	7.6	1.56
uni MPB RO	11.3	2.31	-	-	-	-
uni MPB PRR*	9.3	1.91	-	-	-	-

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

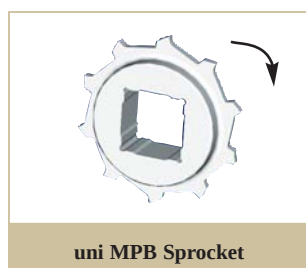
Max. Load per Roller

	Max. permissible static load		Max. permissible dynamic load (accumulation)	
	N	lb	N	lb
uni MPB RO	2200	495	100	23
uni MPB PRR	2000	450	300	68

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*	1833MPB06N
							sq 38.1	sq 1.50	1833MPB06N15INSQ
							sq 40.0	sq 1.57	1833MPB06N40MMSQ
8	132.8	5.23	132.9	5.23	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB08N
							sq 38.1	sq 1.50	1833MPB08N15INSQ
							sq 40.0	sq 1.57	1833MPB08N40MMSQ
							sq 50.8	sq 2.00	1833MPB08N20INSQ
10	164.4	6.47	165.8	6.53	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB10N
							sq 38.1	sq 1.50	1833MPB10N15INSQ
							sq 40.0	sq 1.57	1833MPB10N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	ø1.57/2.76*	1833MPB10NBB
							sq 50.8	sq 2.00	1833MPB10NBB20INSQ
							sq 63.5	sq 2.50	1833MPB10NBB25INSQ
							sq 60.0	sq 2.36	1833MPB10NBB60MMSQ
12	196.3	7.73	198.6	7.82	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB12N
							sq 38.1	sq 1.50	1833MPB12N15INSQ
							sq 40.0	sq 1.57	1833MPB12N40MMSQ
					120.0	4.72	ø40.0/ø70.0*	1.57/2.76*	1833MPB12NBB
							sq 50.8	sq 2.00	1833MPB12NBB20INSQ
							sq 40.0	sq 1.57	1833MPB12NBB40MMSQ
							sq 60.0	sq 2.36	1833MPB12NBB60MMSQ
16	260.4	10.25	255.0	10.04	72.0	2.83	ø18.0/40.0*	ø0.71/1.57*	1833MPB16N
					150.0	5.91	ø40.0/ø70.0*	1.57/2.76*	1833MPB16NBB

* Minimum/maximum round bore.



uni MPB Sprocket

Width of sprockets: 42.3 mm (1.67 in.)

Tooth width: 9.5 mm (0.37 in.)

Standard Material and Color

PA6

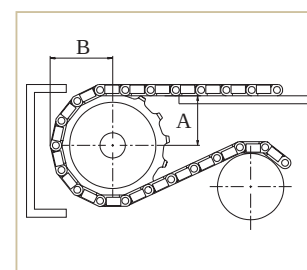
N

Max. Load per Sprocket

	N	lb
uni MPB with snub roller	2000	450
uni MPB without snub roller	1250	281

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



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

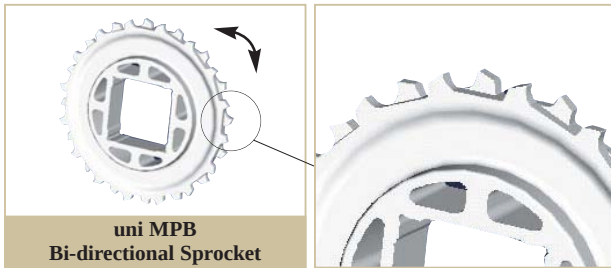
Please contact uni-chains® for further information.

Please note, if travel is in both directions, an extra set of sprockets is required or use Bi-directional options. (See next page.)

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	165.8	6.53	65.0	2.56	ø18.0/40.0*	ø0.71/1.57*	1833MPB10NR2
							sq 38.1	sq 1.50	1833MPB10NR215INSQ
							sq 40.0	sq 1.57	1833MPB10NR240MMSQ
					120.0	4.72	ø40.0/ø70*	ø1.57/2.76*	1833MPB10NBBR2
							sq 60.0	sq 2.36	1833MPB10NBBR260MMSQ
							sq 63.5	sq 2.50	1833MPB10NBBR225INSQ
12	196.3	7.73	198.6	7.82	120.0	4.72	sq 60.0	sq 2.36	1833MPB12NBBR260MMSQ
16	260.4	10.25	255.0	10.04	120.0	4.72	sq 60.0	sq 2.36	1833MPB16NBBR260MMSQ
							sq 90.0	sq 3.54	1833MPB16NBBR290MMSQ

* Minimum/maximum round bore.



Width of sprockets:

10 - 12 teeth: 42.3 mm (1.67 in.)

16 teeth: 40.8 mm (1.61 in.)

Standard Material and Color

PA6 N

Other sprocket sizes are available upon request.

Please contact uni-chains® for further information.

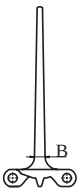
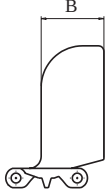
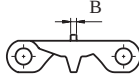
Standard Selection Accessories

			
uni MPB Product Support Flat	uni MPB Bent Product Support	uni MPB No Cling Product Support NC-types	uni MPB No Cling Product Support with drain
			<p><i>Note:</i> Depending on height and spacing the use of product supports may influence the backflex radius.</p>
uni MPB Cupped Product Support	uni MPB Micro Product Support M-types	uni MPB Micro Product Support 22%	

Standard Materials, colors and dimensions

Height		Style	B		Width			Standard materials & colors		
mm	in.		mm	in.	Type	mm	in.	POM-D	PE-I	PP-I
25.4	1.00	Flat	7.3	0.29	K600	151.0	5.94	W	B N	W B
50.8	2.00		8.2	0.32				W B	B N	W B
76.2	3.00		9.1	0.36				W	B N	W B
101.6	4.00		10.0	0.39				W B		W B
152.4	6.00		10.0	0.39				W	B N	W
76.2	3.00	Bent	9.2	0.36	K600	151.0	5.94			W
101.6	4.00								N	W
152.4	6.00									W
76.2	3.00	NC	9.6	0.38	K600	151.0	5.94		B N	W
101.6	4.00		10.5	0.41					B N	W B
50.8	2.00	NC with drain	8.7	0.34	K600	151.0	5.94		B N	W B
76.2	3.00		9.6	0.38					B N	W
101.6	4.00		10.5	0.41					B	W B
101.6	4.00	Cupped	52.0	2.05	K600	151.0	5.94			W
5.0	0.20	M-types	3.0	0.12	K600	151.0	5.94		N	
10.0	0.39								N	W
3.0	0.12	M-types 22%	3.0	0.12	K600	151.0	5.94		N	

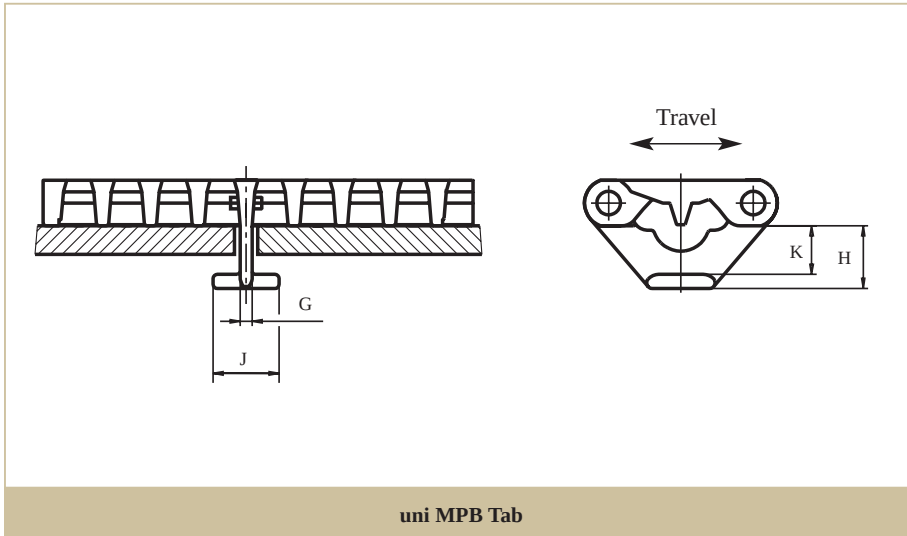
Dimensional Sketches

		
uni MPB Flat, Bent, NC, NC with drain	uni MPB Cupped	uni MPB M-types, M-types 22%

* Minimum bricklaid indent for uni MPB product support is 34.0 mm (1.34 in.).
Increment: 16.8 mm (0.66 in.).

Note: For indent of 34 mm (1.34 in.) avoid using PP or PE lockpin, always use PA6.6 lockpin or use an alternative pin retaining system.

Standard Selection Accessories



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.

Dimensions

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

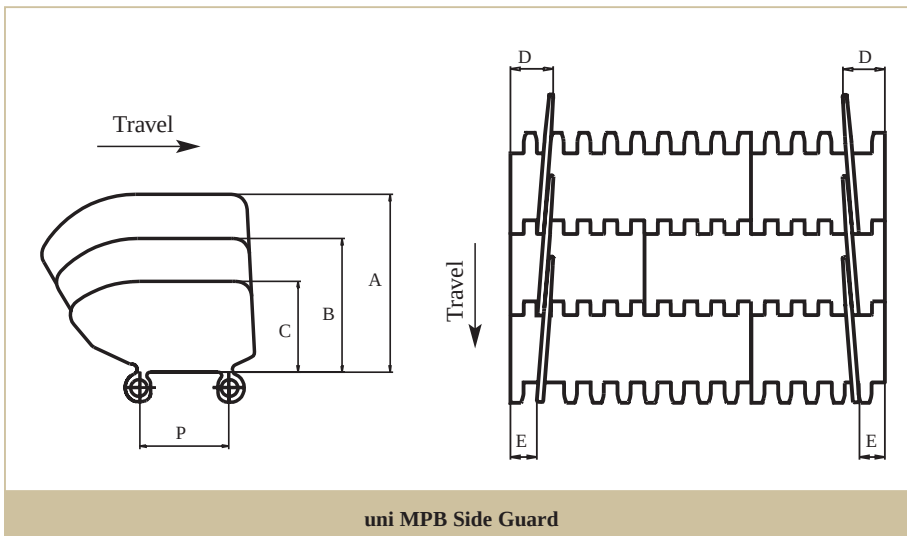
Note: When using tabs please verify that sufficient clearance to the shaft exists.

Max. shaft diameter = Sprocket pitch diameter - 63.5 mm (2.50 in.).
When using square shafts verify that the diagonal does not exceed above max. diameter.

Example: Sprocket z = 6:

Max. shaft diameter 100.0 - 63.5 = $\varnothing 36$ mm (3.94 - 2.50 = $\varnothing 1.4$ in.).

Standard Selection Accessories



Dimensions

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

* 34.0 mm (1.34 in.) combined with product support.

Increment: 8.4 mm (0.33 in.).

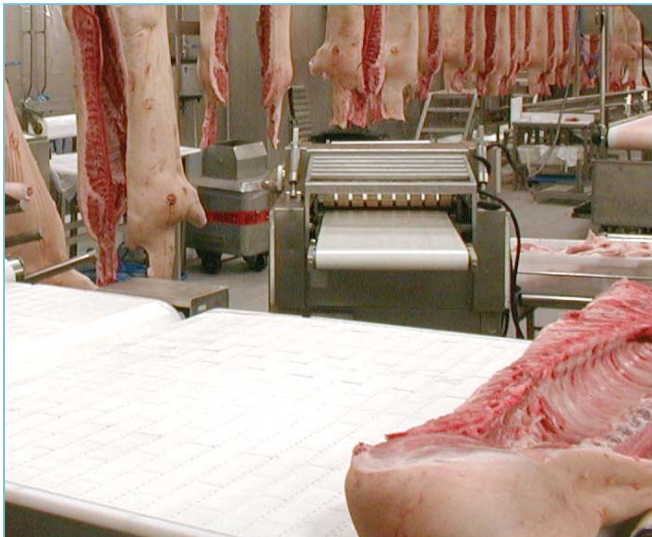
Note: Side guards can not be positioned on top of G and N cones.

Standard Materials, Colors and Dimensions

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

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

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 offered by uni-chains®.

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

- Meat (beef & pork) applications 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

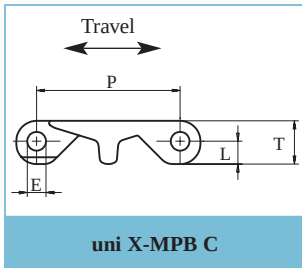
Product features and operational benefits:

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

Standard Selection



Dimensional Sketches



Dimensions

	mm	in.
E	8.3	0.33
L	10.1	0.40
P	63.5	2.50
T	19.1	0.75



Straight running



63.5 mm (2.50 in.)



Patent

Patent pending



Materials

See page 7 and 8



75 mm (2.95 in.)



See page 105



See page 129

Accessories



See page 104

Alternative



PP

W

Standard Materials and Colors

Type	Standard materials and colors	Pins	
		Materials and colors	
uni X-MPB C	POM-DI W	 PA6.6	N
	PE-I N	 PA6.6	N
	PE-I B	 PE	W

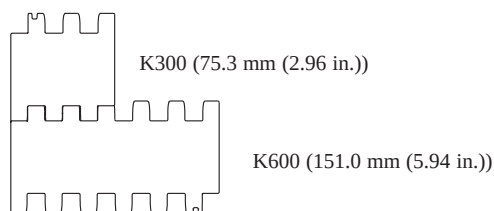
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

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

uni X-MPB Single Link®



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



Permissible Tensile Strength

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

Belt Weights

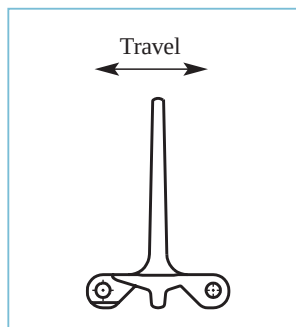
Belt material	POM				PE	
Pin material	PP		PA6.6		PE	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni X-MPB C	14.5	2.96	14.7	3.0	10.0	2.05

Standard Selection Accessories



uni X-MPB Product Support

Dimensional Sketch



uni X-MPB Product Support

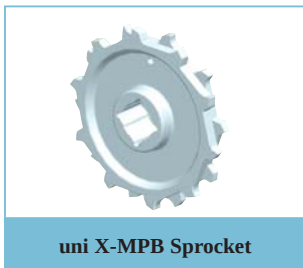
Standard Materials, Colors and Dimensions

Height		Width			Standard material & color
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*	8033XMPB06NR2
8	164.6	6.48	165.6	6.52	70.0	2.76	ø18.0/40.0*	ø0.71/1.57*	8033XMPB08NR2
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*	8033XMPB13NR2
					120.0	4.72	sq 38.1	sq 1.50	8033XMPB13NBBR215INSQ
					120.0	4.72	sq 63.5	sq 2.50	8033XMPB13NBBR225INSQ

* Minimum/maximum round bore.



uni X-MPB Sprocket

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

Standard Material and Color

PA6

N

Max. Load per Sprocket

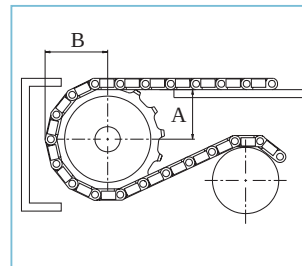
	N	lb
uni X-MPB	2500	560

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

Please contact uni-chains® for further information.

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



Pitch 63.5 mm (2.50 in.)



uni XLB – the strongest belt in the “uni-verse”

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

The uni XLB (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, interior detailing areas
- Material handling applications including pallet handling, moving large paper rolls
- Meat (beef & pork) applications including shackle tables, gam tables

Product features and operational benefits:

- No lubrication required
- Reduced horsepower due to low friction materials
- Reduced downtime due to easy maintenance
- Reduced noise level
- Extremely wear and impact resistant
- Unique sprocket engagement allows long conveyors with reduced pulsation
- Rough top surface reduces slippage and allows safe movements

Standard Selection



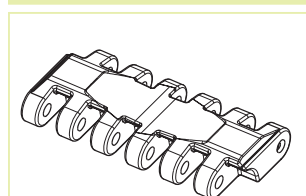
uni XLB C



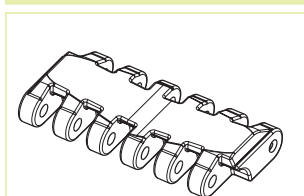
uni XLB C Rough



uni XLB 15% Rough



uni XLB V4



uni XLB V8

Dimensions

	mm	in.
E	10.5	0.41
L	15.0	0.59
P	63.5	2.50
S	1.5	0.06
T	30.0	1.18
Z	4.0	0.16
Y	8.0	0.31



Straight running



63.5 mm (2.50 in.)



Patent pending



See page 7 and 8



100 mm (3.9 in.)



See page 109



See page 129

Alternative

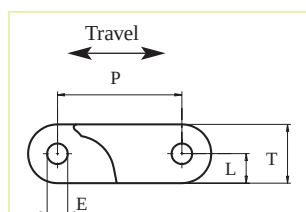


SS304

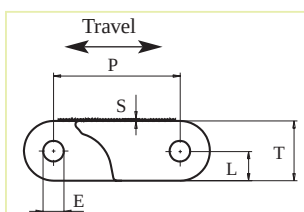
PA6.6

N

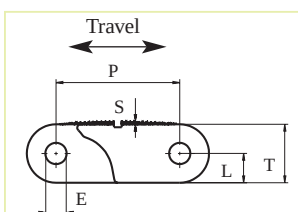
Dimensional Sketches



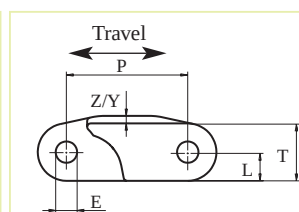
uni XLB C



uni XLB C Rough



uni XLB 15% Rough



uni XLB V4 and V8

Standard Materials and Colors

Type	Standard materials and colors	Pins			Locks		
		Materials and colors			Materials and colors		
uni XLB C	POM-NLAS K		PA6.6	N		PP	D
	POM-NL K		PA6.6	N		PP	D
uni XLB C Rough	POM-NLAS K		PA6.6	N		PP	D
uni XLB 15% Rough	POM-NLAS K		PA6.6	N		PP	D
uni XLB V4 and V8	POM-D K		SS304			PP	D

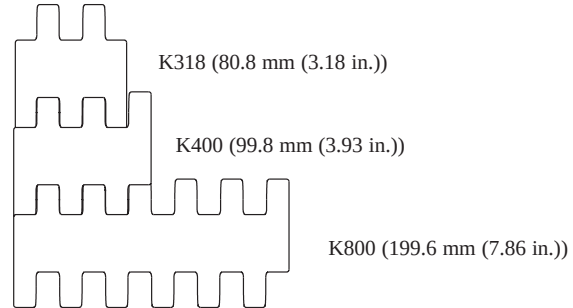
Standard Bricklaid Belt Widths (See next page for Single Link® widths)

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
100	3.9	498	19.6	896	35.3	1295	51.0	1693	66.7	2092	82.3	2490	98.0	2888	113.7
200	7.9	598	23.5	996	39.2	1394	54.9	1793	70.6	2191	86.3	2590	102.0	2988	117.6
299	11.8	697	27.4	1096	43.1	1494	58.8	1892	74.5	2291	90.2	2689	105.9	3087	121.5
398	15.7	797	31.4	1195	47.1	1594	62.7	1992	78.4	2390	94.1	2789	109.8	3187	125.5

uni XLB Single Link®



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



uni XLB Single Link® Belt Widths

Belt type and widths	K318 80.8 mm (3.18 in.)	K400 99.8 mm (3.93 in.)	K800 199.6 mm (7.86 in.)
uni XLB	<div>SLO</div>	X	X
uni XLB C Rough		X	X
uni XLB 15% Rough		X	X
uni XLB V4 and V8			X

SLO

 = Single Link only

Permissible Tensile Strength

Belt material	POM			
Pin material	PA6.6		SS	
	N/m	lb/ft	N/m	lb/ft
uni XLB	90000	6210	100000	6900

Belt Weights

Belt material	POM			
Pin material	PA6.6		SS	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni XLB	31.0	6.35	40.8	8.36
uni XLB V4 and V8	33.9	6.94	42.3	8.66

Standard Bi-directional Sprockets for uni XLB

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	120.0	4.72	ø18.0/40.0*	ø0.71/1.57*	7333XLB10NR2
							sq 38.1	sq 1.50	7333XLB10NR215INSQ
							sq 40.0	sq 1.57	7333XLB10NR240MMSQ
							ø18.0/40.0*	ø0.71/1.57*	7333XLB10NBBR2
							sq 63.5	sq 2.50	7333XLB10NBBR225INSQ
							sq 50.8	sq 2.00	7333XLB10NBBR220INSQ
							sq 60.0	sq 2.36	7333XLB10NBBR260MMSQ
							sq 63.5	sq 2.50	7333XLB10PNR225INSQ
							sq 40.0	sq 1.57	7333XLB10PNR240MMSQ
							sq 60.0	sq 2.36	7333XLB10PNR260MMSQ
							sq 90.0	sq 3.54	7333XLB10PNR290MMSQ
13	265.3	10.44	264.4	10.41	-	-	ø18.0/40.0*	ø0.71/1.57*	7333XLB13PNR2
15	305.4	12.02	305.9	12.04	-	-	ø18.0/40.0*	ø0.71/1.57*	7333XLB15PNR2
							sq 63.5	sq 2.50	7333XLB15PNR225INSQ
20	405.9	15.98	407.1	16.03	-	-	sq 38.1	sq 1.50	7333XLB20PNR215INSQ
							sq 50.8	sq 2.00	7333XLB20PNR220INSQ
							sq 63.5	sq 2.50	7333XLB20PNR225INSQ
							sq 40.0	sq 1.57	7333XLB20PNR240MMSQ
							sq 60.0	sq 2.36	7333XLB20PNR260MMSQ

* Minimum/maximum round bore.



uni XLB Sprocket

Width of sprockets: 33.0 mm (1.30 in.)

Tooth width: 16.0 mm (0.63 in.)

Standard Material and Color

PA6 N

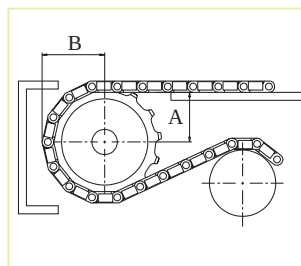
Max. Load per Sprocket

	N	lb
uni XLB	12000	2700

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

Placement of Wearstrips and Sprockets

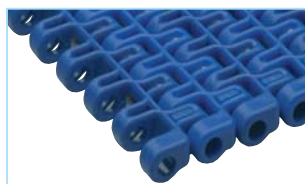
No. of teeth	Minimum B-dimension		Wearstrip distance A	
	mm	in.	mm	in.
10	117.7	4.63	82.7	3.26
13	147.7	5.81	113.8	4.48
15	168.0	6.61	134.7	5.30
20	218.0	8.58	185.5	7.30



Made to Order Belt Range



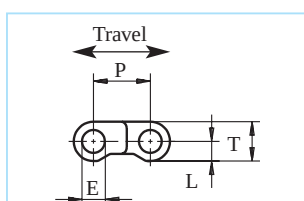
Made-To-Order Selection



uni M-SNB M2

Surface opening 14%

Dimensional Sketch



uni M-SNB M2

Dimensions

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



Straight running



12.7 mm (0.50 in.)



Patent

Patented



Materials

See page 7 and 8



20 mm (0.8 in.)



See page 25



See page 129


01 N See page 11

PP W B

PP W PE W
PA6.6 N B SS304

PP W

PA6.6 N

Made-To-Order Materials

POM-D, PP and PE

Made-To-Order Bricklaid Belt 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

Made-To-Order Selection



uni Light CR



uni Light 10% SR



uni Light 18%



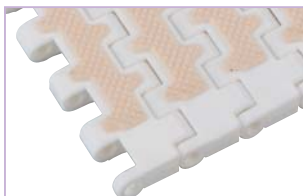
uni Light Rib



uni Light Vacuum



uni Light Flat Rubber Top

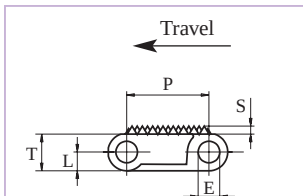


uni Light Rough Rubber Top

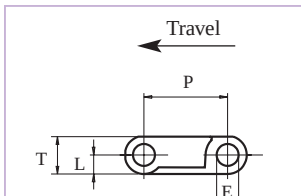
Dimensions for uni Light Vacuum

mm	in.	No. of holes	Total open area %
3.2	0.12	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

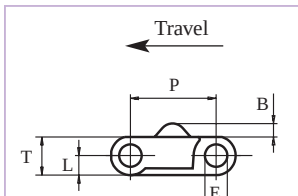
Dimensional Sketches



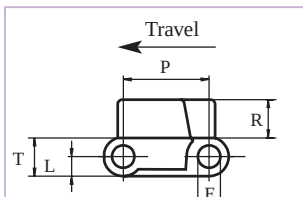
uni Light CR



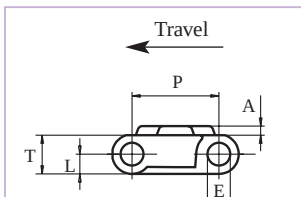
uni Light 18%, Vacuum



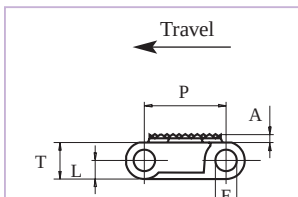
uni Light 10% SR



uni Light Rib



uni Light Flat Rubber Top



uni Light Rough Rubber Top

Dimensions

	mm	in.		mm	in.		mm	in.		mm	in.
A	2.0	0.08	E	5.1	0.20	P	19.1	0.75	S	1.5	0.06
B	3.0	0.12	L	4.3	0.17	R	7.3	0.29	T	8.5	0.33

Made-To-Order Materials

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



Straight running



19.1 mm (0.75 in.)



Patented



See page 7, 8 and 9


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


See page 29



See page 129


PP W G B

03 N K See page 11

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

PA6.6 N D

PP W

Accessories



See page 30



See page 31



See page 30



See page 114

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

Made-To-Order Bricklaid 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

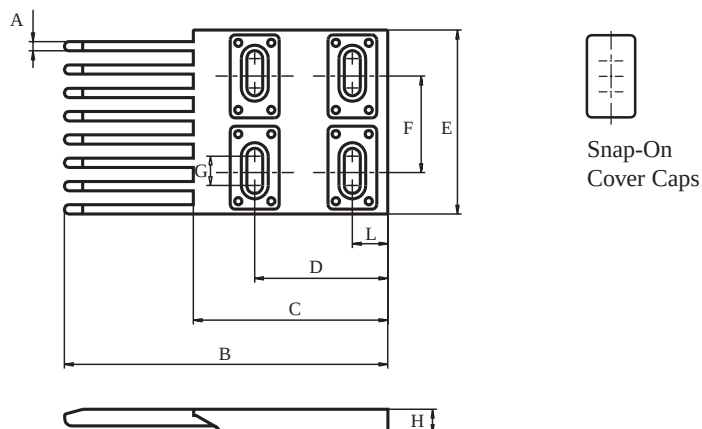
Permissible Tensile Strength

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

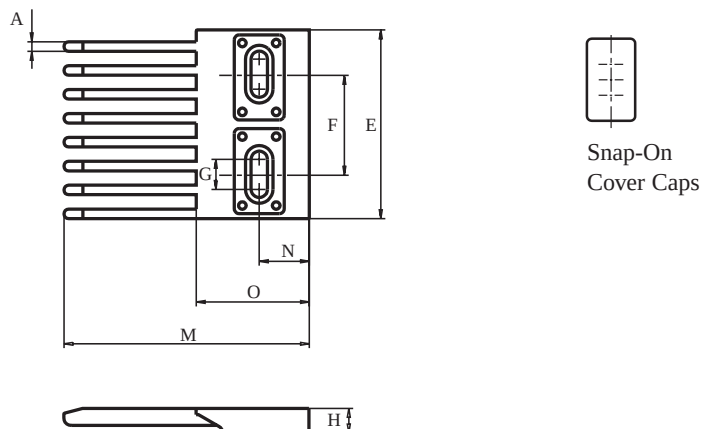
Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni Light CR	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%SR	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	-	-	-	-

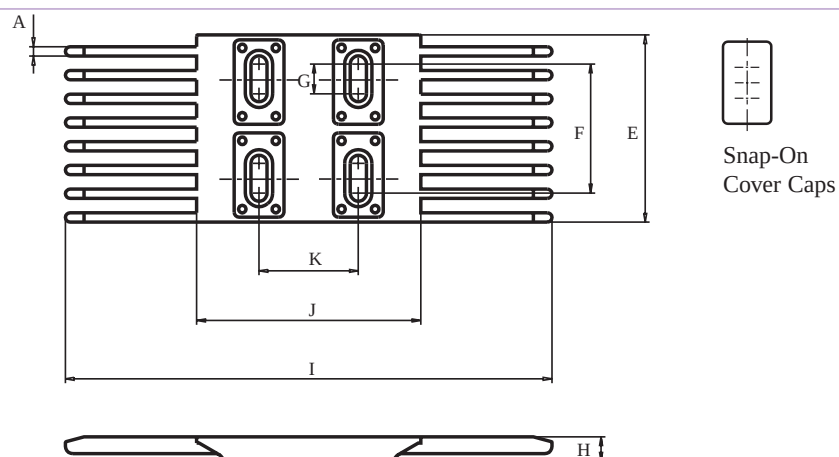
Made-To-Order Selection Accessories



uni Light Finger Plate Type 1A K300



uni Light Finger Plate Type 2 K300



uni Light Finger Plate Type 3 K300

Made-To-Order Materials

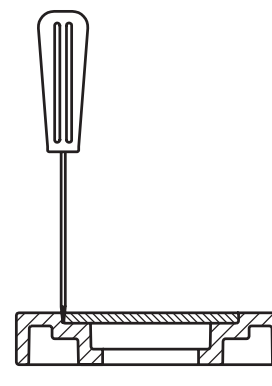
POM-LF, POM-DI and POM-EC

Dimensions

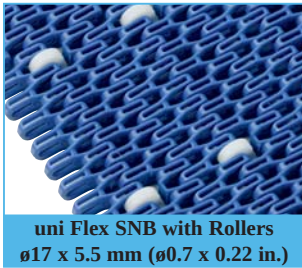
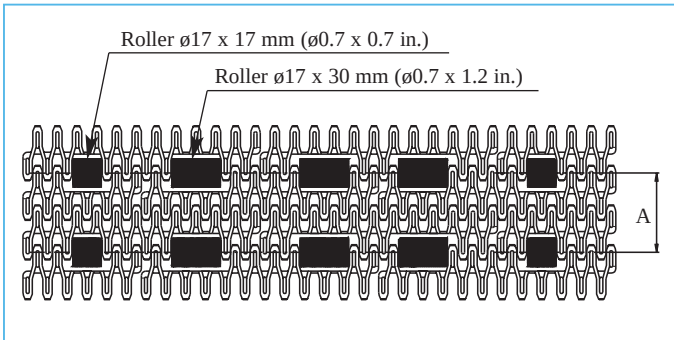
	mm	in.
A	3.8	0.15
B	132.9	5.23
C	80.0	3.15
D	14.9	0.59
E	75.4	2.97
F	40.0	1.57
G	12.0	0.47
H	10.0	0.39
I	197.1	7.76
J	90.3	3.56
K	40.0	1.57
L	54.5	2.15
M	98.9	3.89
N	20.0	0.79
O	45.2	1.78

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 plate.



Made-To-Order Selection



Rollers are available in widths: 5.5, 17 and 30 mm (0.23, 0.7 and 1.2 in.).

Dimensions

	mm	in.
A min.	50.8	2.00



Side flexing



25.4 mm (1.00 in.)



Patented



See page 7, 8 and 10



50 mm (2.0 in.)



See page 54



See page 129

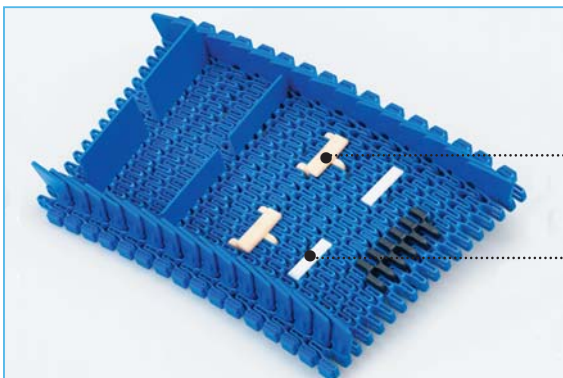


PA6.6 **N** **B** PP **W**
PE **W** **SS304** **SS316**

Made-To-Order Materials

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

Made-To-Order Selection Accessories



Rubber Support

Product Support low

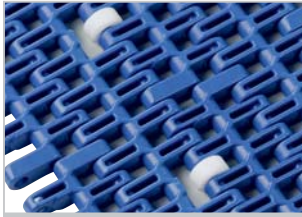
Dimensions

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

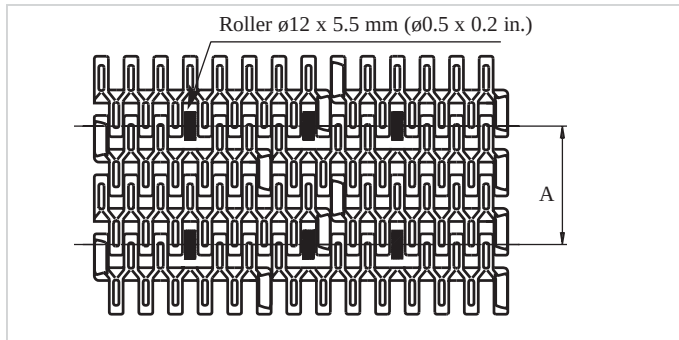
Made-To-Order Materials

Roller: POM-D and Rubber 01N

Made-To-Order Selection



uni SNB M2 with Rollers



Dimensions

	mm	in.
A min.	50.8	2.00



Straight running



25.4 mm (1.00 in.)



Patented



See page 7, 8 and 9



30 mm (1.2 in.)



See page 61



See page 129



PP B W G



PP W PE W
PA6.6 B SS304



PA6.6 N D

Accessories



See page 60



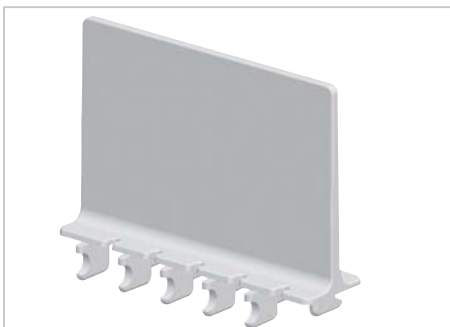
See page 59

* Only for uni SNB M2 34% and uni SNB M2 34% Rib. Not 20%-style belts.

Made-To-Order Materials

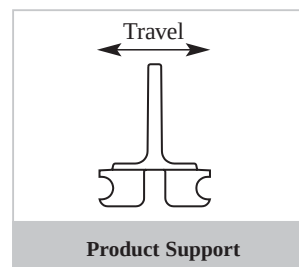
POM-D, PP, PE and Roller Material POM-D

Made-To-Order Selection Accessories



Product Support

Dimensional Sketches



Dimensions

Height		Width		
mm	in.	Type	mm	in.
25.4	1.00	K300	75.9	2.99
50.8	2.00	K300	75.9	2.99
76.2	3.00	K300	75.9	2.99

Made-To-Order Materials

POM-D, PP and PE

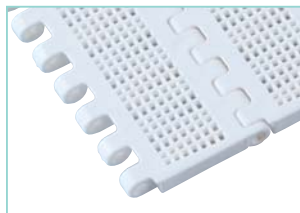
Made-To-Order Selection



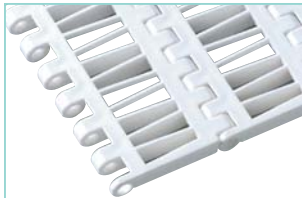
uni Light EP C



uni Light EP 8.5%



uni Light EP 22%



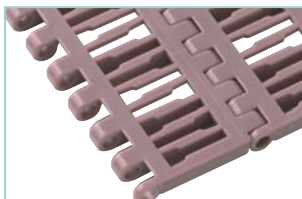
uni Light EP 46%



uni Light EP 18%



uni Light EP 28%



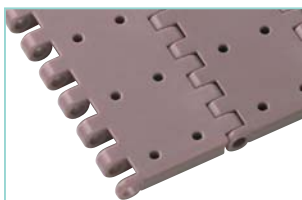
uni Light EP 33%



uni Light EP Rib C

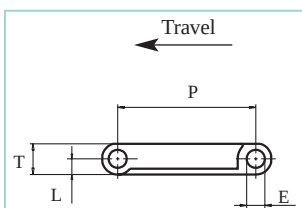


uni Light EP Rib 33%

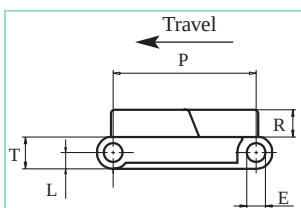


uni Light EP Vacuum

Dimensional Sketches



uni Light EP



uni Light EP Rib C, Rib 33%

Dimensions

	mm	in.		mm	in.		mm	in.
E	5.1	0.20	P	38.1	1.50	T	8.5	0.34
L	4.3	0.17	R	7.3	0.29	-	-	-

Made-To-Order Materials

POM-D, POM-LF, PP and PE



Straight running



38.1 mm (1.50 in.)



Patented



See page 7 and 8



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



See page 76



See page 129



PP W G B



PP W PE W
PA6.6 B SS304



PP W

Accessories



See page 119



See page 120



See page 119



See page 121



See page 75

Made-To-Order Bricklaid Belt Widths

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
102	4.0	661	26.0	1170	46.0	1678	66.0	2186	86.0
152	6.0	712	28.0	1220	48.0	1728	68.0	2236	88.0
254	10.0	763	30.0	1271	50.0	1779	70.0	2287	90.0
305	12.0	814	32.0	1832	52.0	1830	72.0	2338	92.0
355	14.0	865	34.0	1373	54.0	1881	74.0	2389	94.0
406	16.0	916	36.0	1424	56.0	1932	76.0	2440	96.0
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	44.0	1627	64.0	2135	84.0	-	-

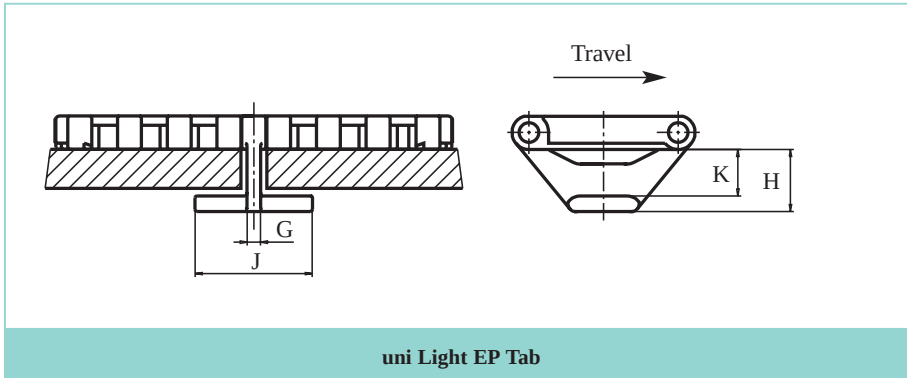
Permissible Tensile Strength

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

Belt Weights

Belt material	POM				PP				PE			
Pin material	plastic		steel		plastic		steel		plastic		steel	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni Light EP C/8.5%/vacuum	5.7	1.16	9.3	1.90	3.7	0.76	7.3	1.50	4.0	0.82	7.6	1.56
uni Light EP 18%/28%	4.8	0.98	8.4	1.72	3.4	0.70	7.0	1.43	3.6	0.74	7.2	1.48
uni Light EP 33%/46%	4.4	0.90	8.0	1.64	3.1	0.63	6.7	1.37	3.3	0.68	6.9	1.41
uni Light EP Rib	7.1	1.45	10.7	2.19	4.6	0.94	8.2	1.68	5.0	1.00	8.6	1.76

Made-To-Order Selection Accessories



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.

Dimensions

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

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

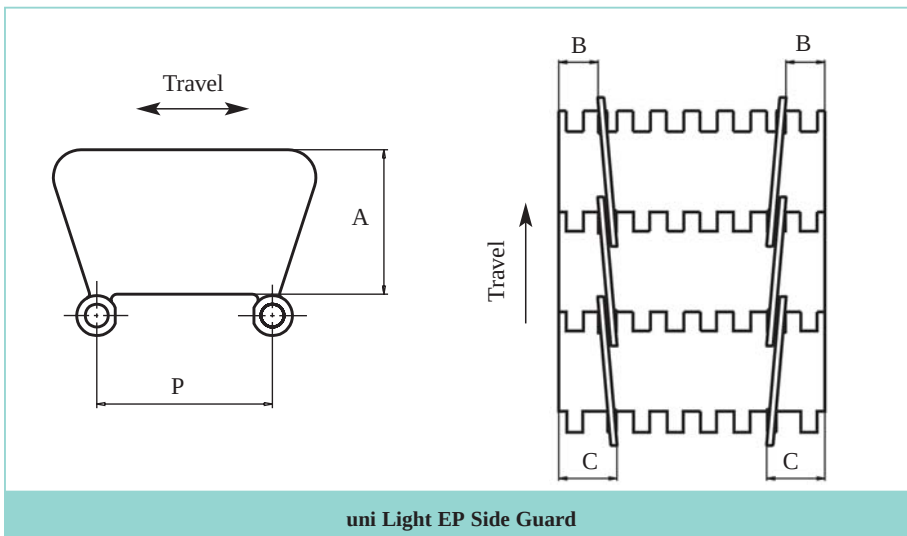
Max. shaft diameter = Sprocket pitch diameter - 44.5 mm (1.75 in.).

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 = 43.3 mm (1.7 in.).

Made-To-Order Selection Accessories



Made-To-Order Material

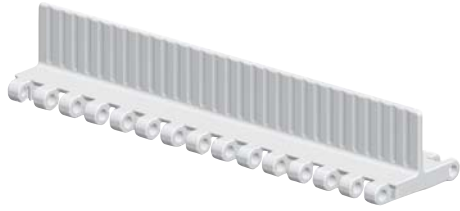
POM-D

Dimensions

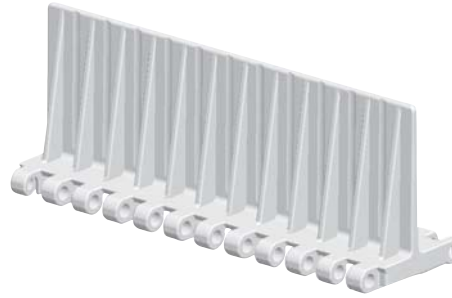
	mm	in.
A	31.7	1.25
B	15.0	0.59
C	23.0	0.91
P	38.1	1.50

Increment: 6.5 mm (0.26 in.).

Made-To-Order Selection Accessories

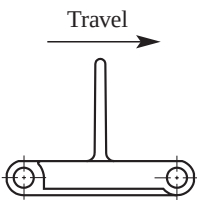
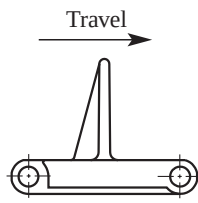


uni Light EP Product Support flat (no Ribs)



uni Light EP Product Support with Ribs

Dimensional Sketches


uni Light EP
Product Support flat (no Ribs)

uni Light EP
Product Support with Ribs

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

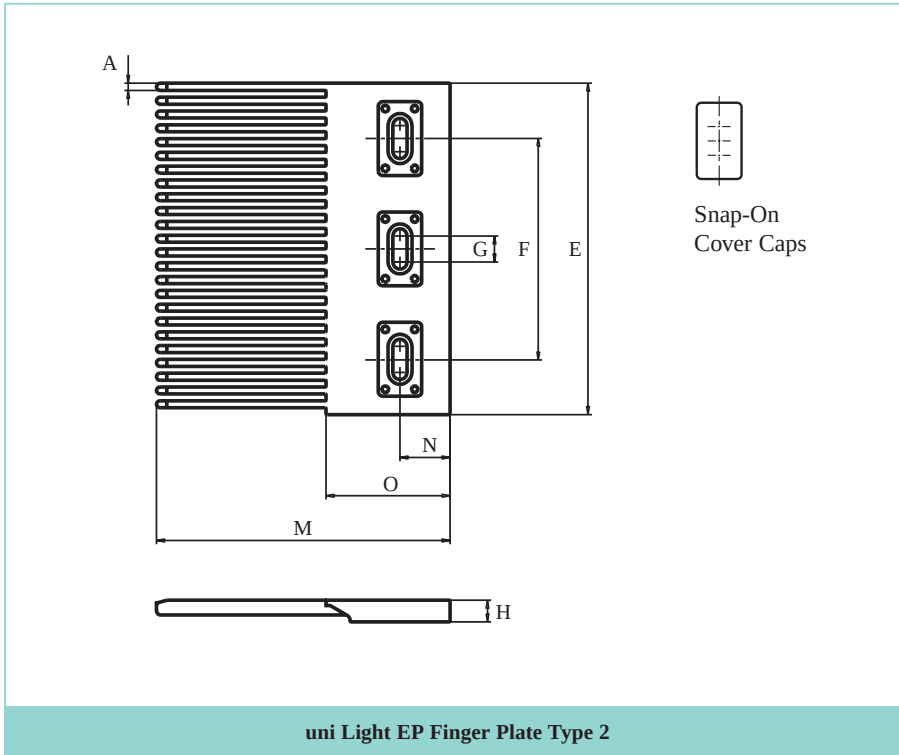
Made-To-Order Materials

POM-D, PP-I and PE

Dimensions

Height		Style	Width			Indent left/right	
mm	in.		Type	mm	in.	mm	in.
25.4	1.00	flat	K750	191.0	7.52	no	
		with ribs	K400	101.6	4.00	no	
			K600	152.8	6.02	no	
50.8	2.00	with ribs	K400	101.6	4.00	no	
			K600	152.8	6.02	no	
		flat	K750	191.0	191.0	17.5	0.69
76.2	3.00	with ribs	K600	152.8	6.02	no	

Made-To-Order Selection Accessories



Dimensions

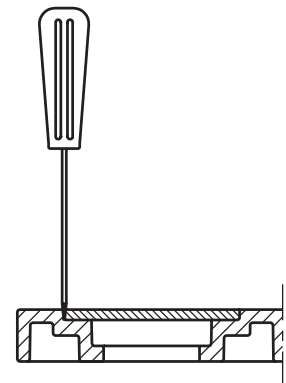
	mm	in.
A	3.3	0.13
E	152.4	6.00
F	101.6	4.00
G	12.0	0.47
H	10.3	0.41
M	135.0	5.31
N	23.0	0.91
O	57.0	2.24

All 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 plate.

Made-To-Order Material

POM-LF

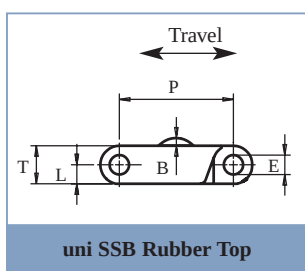


Made-To-Order Selection



uni SSB Rubber Top

Dimensional Sketches



uni SSB Rubber Top

Dimensions

	mm	in.
B	2.5	0.10
E	6.5	0.26
L	6.4	0.25
P	38.1	1.50
T	12.7	0.50



Straight running



38.1 mm (1.50 in.)



See page 7 and 8



45 mm (1.8 in.)



See page 72



See page 72



See page 129


PP **B**

GR **N** **SS304**

05 **I** See page 11

Made-To-Order Materials

POM-SLF, POM-LF and GR

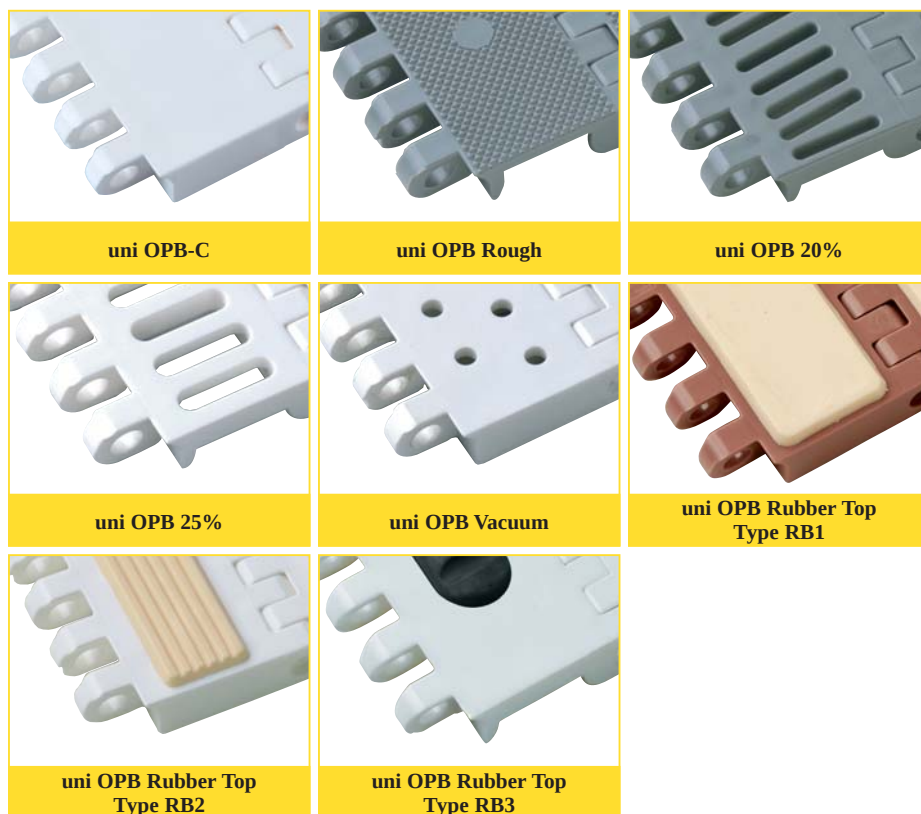
Made-To-Order Bricklaid Belt Widths

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

Belt Weights

Belt material	POM					
Pin material	GR		PP		steel	
	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni SSB Rubber Top	12.4	2.54	12.2	2.50	15.0	3.07

Made-To-Order Selection



	Straight running
	50.0 mm (1.97 in.)
	Patented
	See page 7, 8, 9 and 10
	75 mm (3.0 in.) Rib: 300 mm (11.8 in.) Side guards: 200 mm (7.9 in.)
	See page 85
	See page 129
	PP W
	PP W G B PE W B
	PP W PE W SS304
	PP W
	03 N K See page 11

Accessories

	See page 125
	See page 126
	See page 86
	See page 127

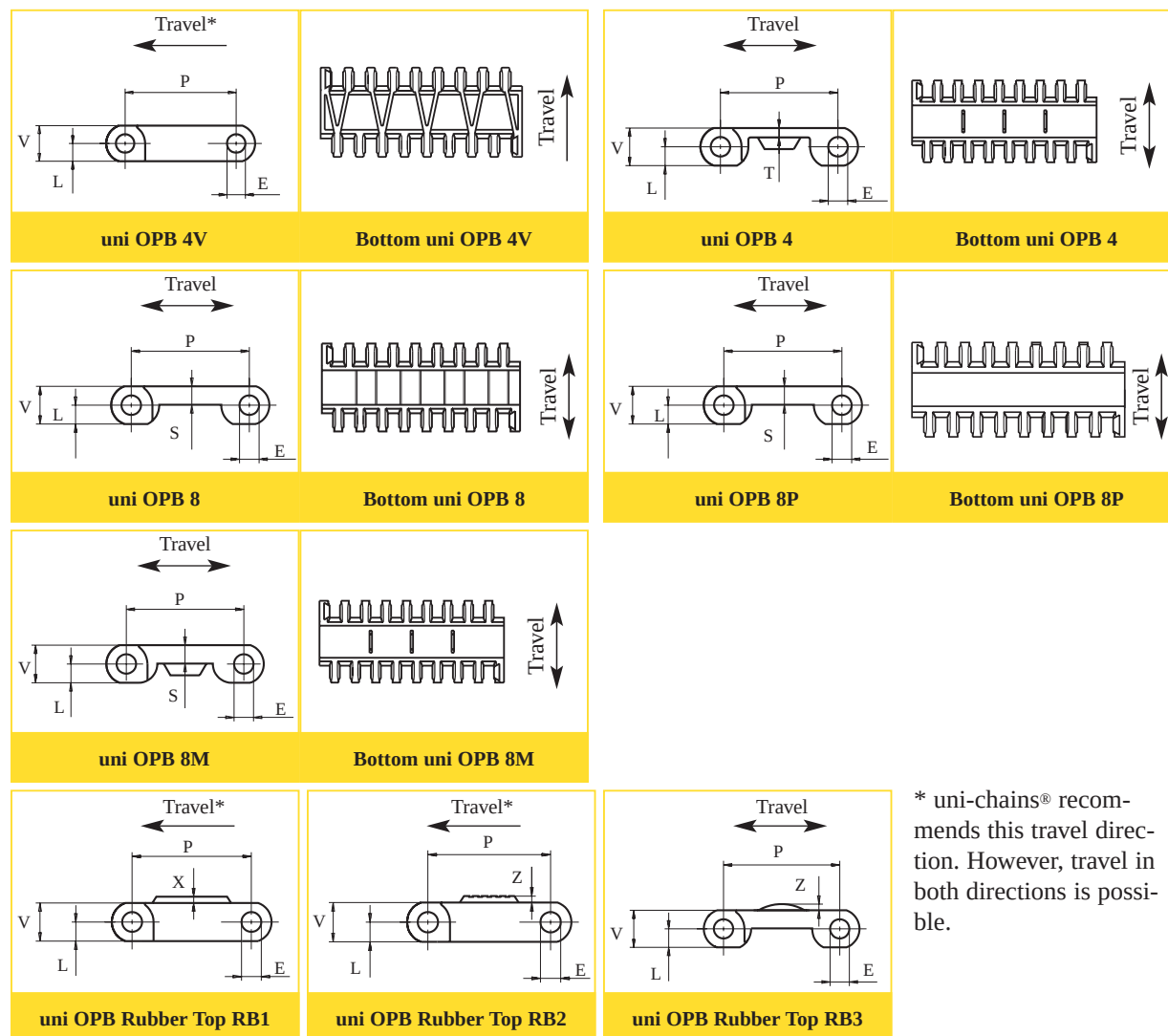
Made-To-Order Materials

POM-D, POM-LF, POM-SLF, PP, PE, PA6.6 and PA6.6H

Made-To-Order Bricklaid Belt Widths

mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
151	5.9	452	17.8	754	50.8	1055	41.5	2262	89.1
185	7.3	486	19.1	788	53.8	1206	47.5	2413	95.0
268	10.6	503	32.9	804	56.8	1357	53.4	2564	100.9
302	11.9	536	35.9	872	59.8	1508	59.4	2714	106.9
335	13.2	570	38.8	905	35.6	1659	65.3	2865	112.8
386	15.2	603	41.8	938	36.9	1810	71.2	3016	118.7
403	15.9	636	44.8	988	38.9	1960	77.2	3167	124.7
418	16.5	703	47.8	1022	40.2	2111	83.1	3318	130.6

Dimensional Sketches



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

Dimensions

	mm	in.		mm	in.		mm	in.		mm	in.
E	8.3	0.33	P	50.0	1.97	T	4.0	0.16	X	2.5	0.10
L	8.0	0.31	S	7.8	0.31	V	16.0	0.63	Z	2.0	0.08

Combinations of Top and Bottom Surface

Bottom	uni OPB 4	uni OPB 8M	uni OPB 4V	uni OPB 8	uni OPB 8P
Top					
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.

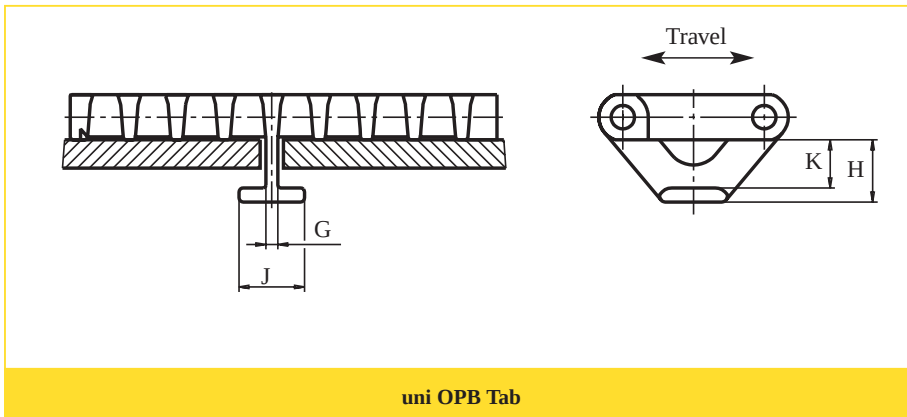
Permissible Tensile Strength

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

Belt Weights

Belt material	POM				PP				PE			
	plastic		steel		plastic		steel		plastic		steel	
Pin material	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²	kg/m ²	lb/ft ²
uni OPB C/C Rough/Vac.	11.7	2.40	18.3	3.75	7.5	1.54	14.0	2.87	8.1	1.66	14.6	2.99
uni OPB 20%/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

Made-To-Order Selection Accessories



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

Made-To-Order Material

POM-D, POM-LF and PP

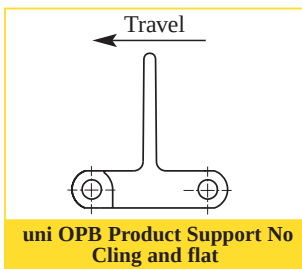
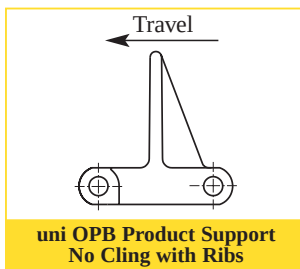
Note: When using a belt system with tabs, the temperature should be constant.
Please note that the tabs are not always placed in the middle of the belt.

Note: When using tabs please verify that sufficient clearance to the shaft exists.
Max. shaft diameter = Sprocket pitch diameter - 63.5 mm (2.50 in.).
When using square shafts verify that the diagonal does not exceed above 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 Selection Accessories



Dimensional Sketches



* Minimum bricklaid indent for uni OPB product support is 21.0 mm (0.83 in.).
Increment: 8.4 mm (0.33 in.).

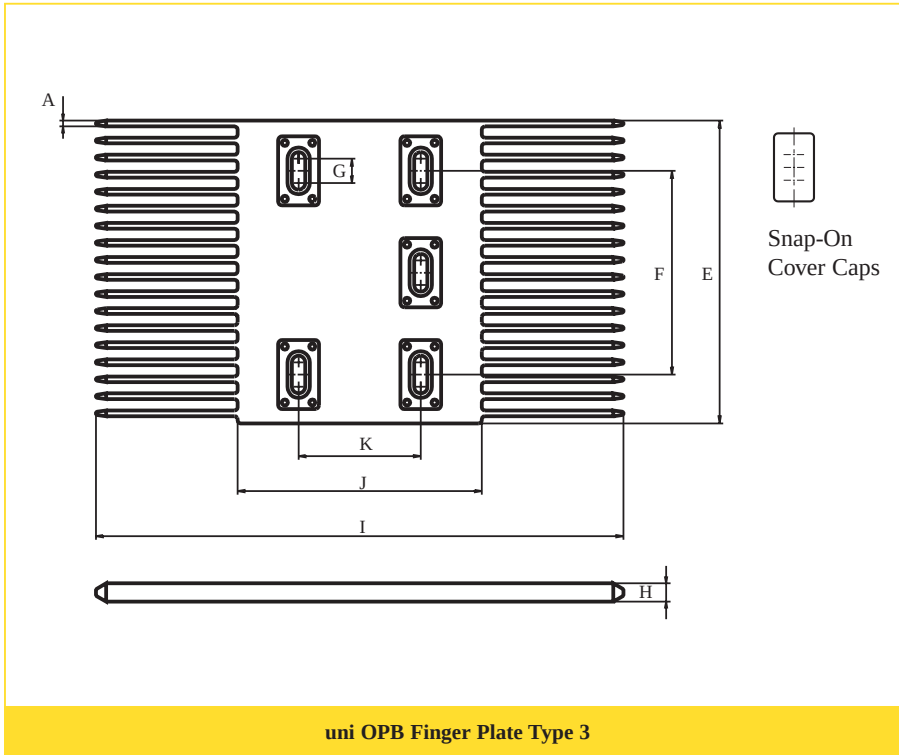
Made-To-Order Material

PPHW

Dimensions

Style	Height		Width		
	mm	in.	Type	mm	in.
OPB 4 PS No Cling	50.8	2.00	K600	151.0	5.94
	76.2	3.00			
	101.6	4.00			
OPB 4 PS No Cling with Ribs	50.8	2.00	K600	151.0	5.94
	76.2	3.00			
	101.6	4.00			
OPB 4V-23F PS No Cling	50.8	2.00	K600	151.0	5.94
	76.2	3.00			
OPB 4V-23F PS No Cling with Ribs	50.8	2.00	K600	151.0	5.94
OPB 8, OPB 8P and OPB 8M PS No Cling	50.8	2.00	K600	151.0	5.94
	76.2	3.00			
	101.6	4.00			
OPB 8, OPB 8P and OPB 8M PS No Cling with Ribs	50.8	2.00	K600	151.0	5.94
	76.2	3.00			
	101.6	4.00			
OPB 8 PS flat	152.4	6.00	K600	151.0	5.94

Made-To-Order Selection Accessories



Made-To-Order Material

POM-LF

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

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 plate.

Made-To-Order Selection



uni CPB with Thread Inserts


uni CPB 20% Rough
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 it will influence the backflex radius of the belt.



Straight running



50.8 mm (2.00 in.)



See page 7 and 8



85 mm (3.3 in.)



See page 91 and 92



See page 129


PA6.6 **N**

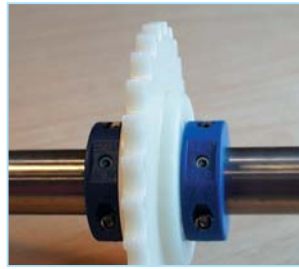
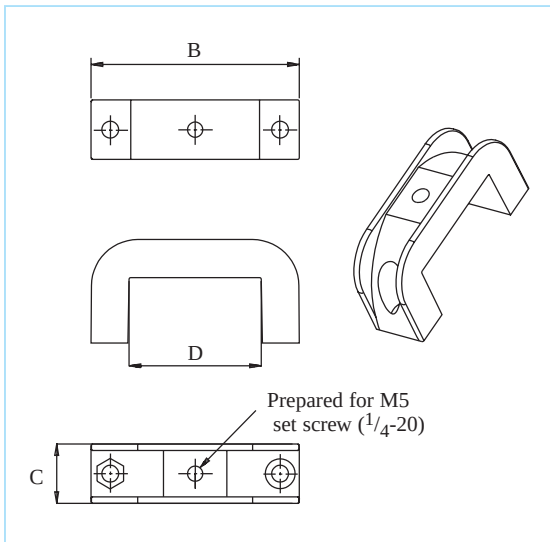
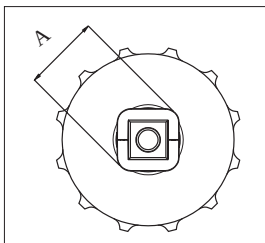
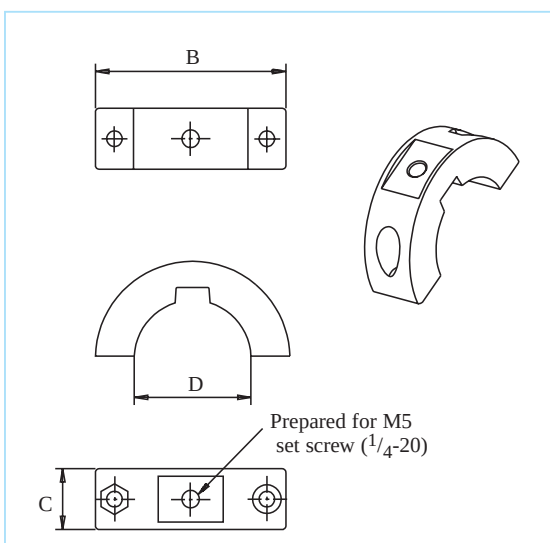
Made-To-Order Materials

POM-NLAS, POM-NL

Made-To-Order Bricklaid Belt Widths

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

Standard Selection Accessories



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 belt or chain does not conflict with uni Retainer Rings™

uni Retainer Ring™	uni reference no.	
	set of 4 pcs	set of 20 pcs
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

Standard Material and Color

PA6-GF

B

Technical Data Sheet for Belt/Chain Applications

Company/Customer:
Contact person:
End user:

Technical data

Application 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/m ²				
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	☐ Partlylength 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		☐ Side flexing						
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:	☐ Endlock		☐ Rodlock	☐ Y-lock	☐ Lockpin	☐ Other:			
uni Flex SNB	☐ Pinlock	☐ left	☐ right	☐ Wearpartlock	☐ left	☐ right	☐ Lockingplate	☐ left	☐ right

Belt/chain

Technical Data Sheet for Belt/Chain Applications

Company/Customer:
Contact person:
End user:

Technical data

Application 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				lbft				lb/ft ²	
7. Throughput:		items/min.				lb/min.				Speed ft/min.	
8. Length of conveyor C-C:				ft		Length of belt/chain:				ft Width of belt:	
9. Start/stop operation:		☐ No (continuous drive)				☐ Yes, no. of stops per hour				☐ Product indexing	
10. Accumulation:		☐ No		☐ Full		10. Partlylength 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				☐ Side flexing					
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:		☐ Endlock		☐ Rodlock		☐ Lockpin		☐ Other:			
uni Flex SNB		☐ Pinlock		☐ left		☐ right		☐ Wearpartlock		☐ left ☐ right ☐ Lockingplate ☐ left ☐ right	

Belt/chain



Disclaimer

uni-chains® 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 and all liability.

uni-chains® is not responsible for any property damage or personal injury, direct or indirect damage from failure or down time in production caused by improper equipment construction. uni-chains® cannot be held responsible for the incorrect application, operation and/or abuse of our products.

uni-chains® does not guarantee that the design and/or operational function of any equipment that incorporates uni-chains® products, conforms to local, state, and/or federal regulations. Nor does uni-chains® warrant that standards relating to safety aspects such as public and worker safety, safety guards, fire and sanitation safety, or any other safety regulations are met by such equipment or products.

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

Warnings

Fire

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

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 uni-chains®.

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

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



Side flexing



Straight running



Straight running



Pitch



Materials



Backflex radius



Sprockets



Two part sprockets



uni Retainer Rings



Pin material



Endlock



Lockpin



Solid lockpin



Rodlock



G-lock



Rubber inserts

Accessories



Tabs



Product support



Side guard



Finger plate



Reinforcement link



Molded to order



Single Link only

Not for use in brick-layed belt widths.

Standard and alternative belt colors

B

Blue

BR

Brown

D

Red

DG

Dark Grey

E

Green

G

Grey

K

Black

N

Natural

I

Ivory

O

Orange

P

Purple

T

Tan (Beige)

W

White

Y

Yellow



Get more information about your local
distributor of uni-chains' products on
www.unichains.com

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