

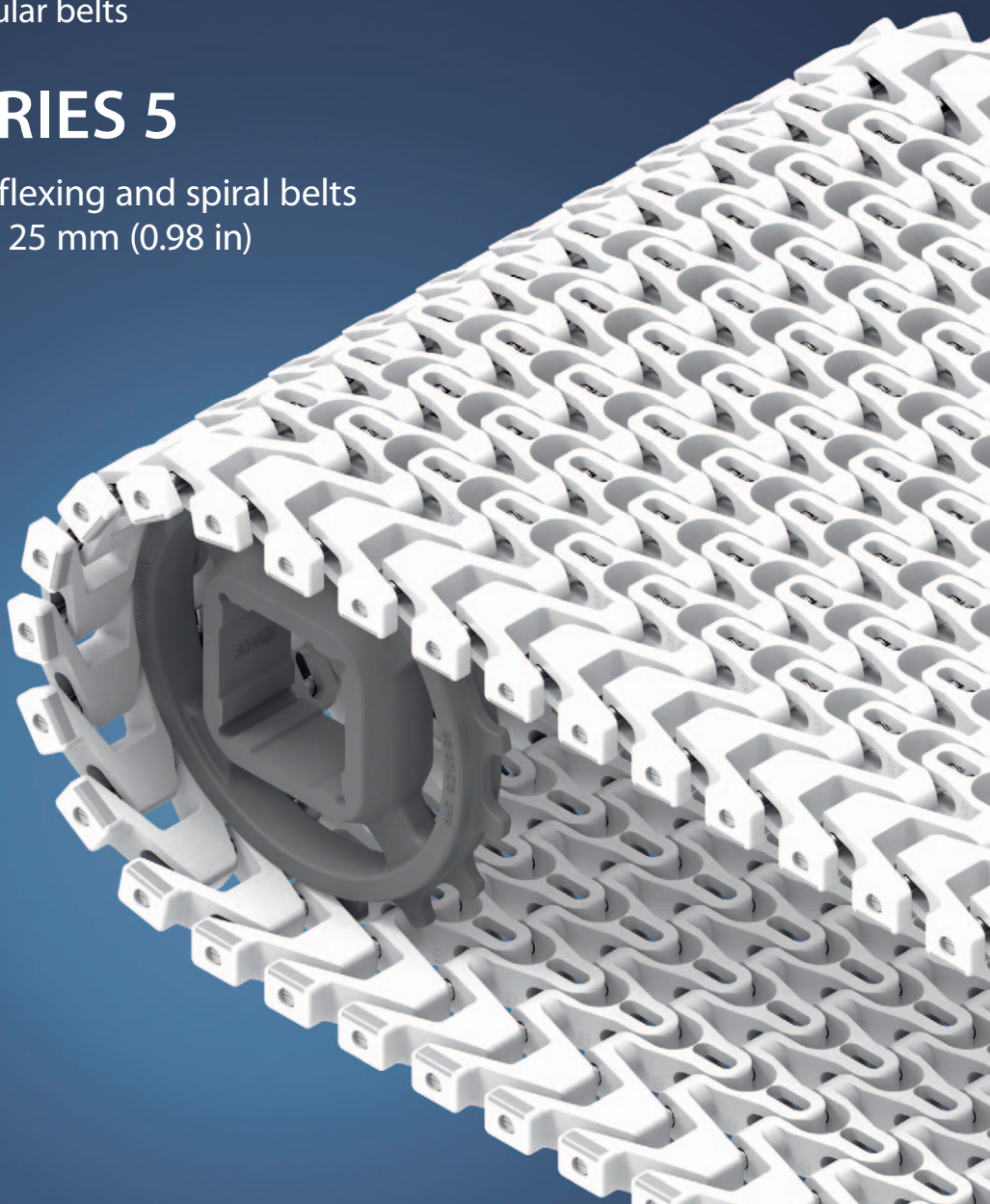
# EXCERPT FROM PROLINK ENGINEERING MANUAL

01/20 (Ref-No. 888)

**siegling prolink**  
modular belts

## SERIES 5

Side flexing and spiral belts  
Pitch 25 mm (0.98 in)



**Forbo Siegling GmbH**

Lilienthalstraße 6/8, D-30179 Hannover

Phone +49 511 6704 0

[www.forbo-siegling.com](http://www.forbo-siegling.com), [siegling@forbo.com](mailto:siegling@forbo.com)

Ref. no. 888-2\_1.2\_S5

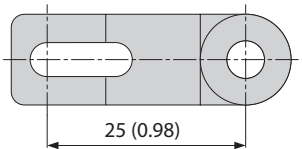
# SERIES 5 | OVERVIEW

**siegling prolink**  
modular belts

Side flexing and spiral belts | Pitch 25 mm (0.98 in)

Belts for light to medium-duty food and non-food applications

Side view scale 1:1



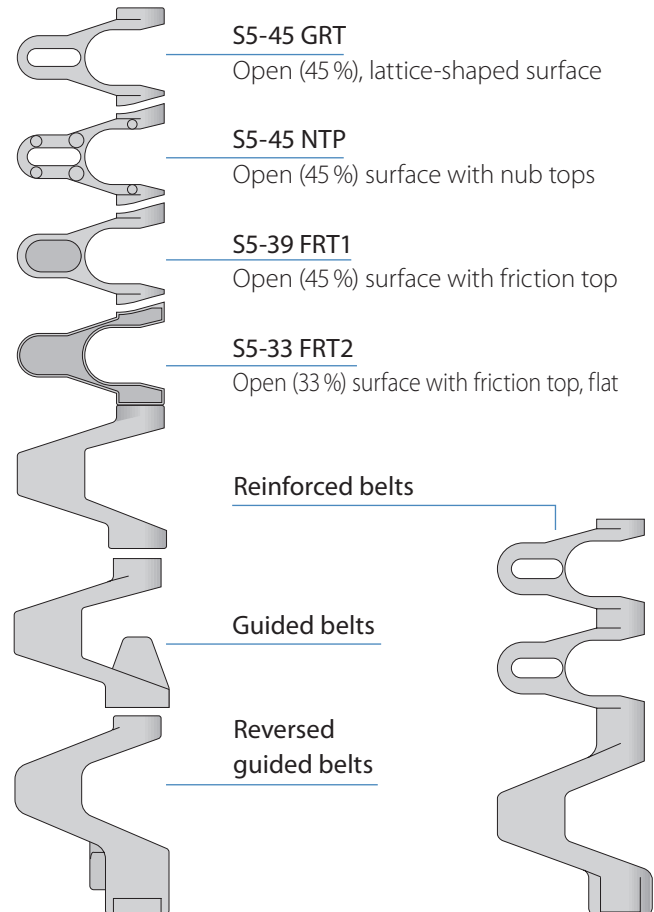
## Design characteristics

- Suitable for both straight and radius conveying
- up to 45 % open area for excellent air circulation and drainage
- Stainless steel hinge pins for high load capacity, lateral stiffness, fewer belt supports and minimum belt lifting in curves
- No potential belt edge catch points due to safe fixing of hinge pins

## Basic data

Pitch	25 mm (0.98)
Belt width min.	100 mm (3.9 in), 175 mm (6.9 in) for S5 ST
Width increments	25 mm (0.98)
Hinge pins	Stainless steel

Available surface pattern and opening area



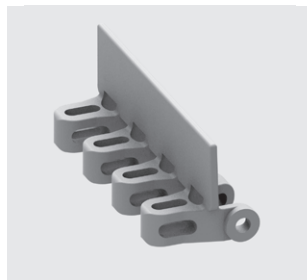
## Sprockets

in different sizes with round or square sprocket bore



## Profiles

in different heights and designs for inclines



## Side guards

in different heights for retention of bulk products



## Ball-bearing modules

to minimize friction forces at the belt edge



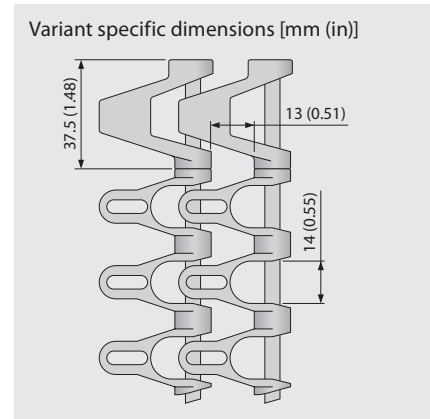
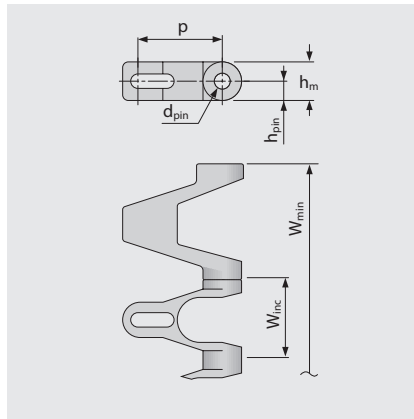
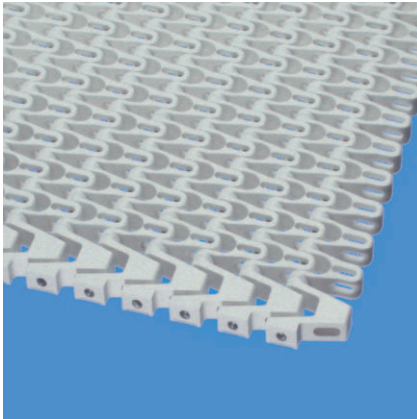
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 GRT | 45 % Opening | Grid top

Open area (45 %) for excellent air circulation and drainage | Contact area 42 % (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Lattice shaped surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	0.0	100.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	3.94	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PE	WT/DB	SS		10	685	NR	NR	11.0	2.25	0.0	-70/65	-94/149	●	●
PP	WT/DB/BL	SS		18	1233	1000	225	10.0	2.05	0.0	5/100	41/212	●	●
POM-CR	WT/DB/BL	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●

#### Mold to order belts

PA*	BL	SS		20	1370	1440	324	12.8	2.62	0.0	-40/120	-40/248	●	●
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NR = not recommended

\* Values valid for dry applications (RH < 50%). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BL (Blue), ■ DB (Dark blue), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

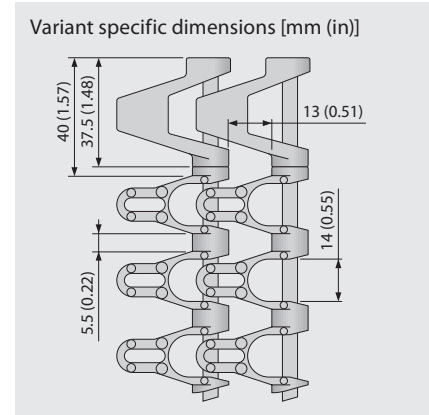
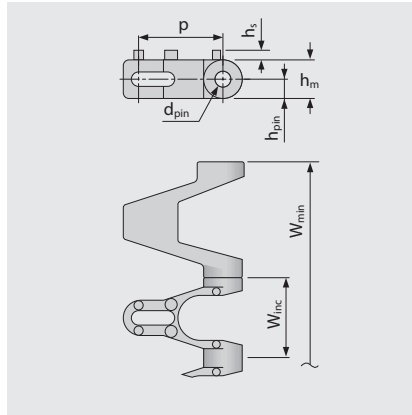
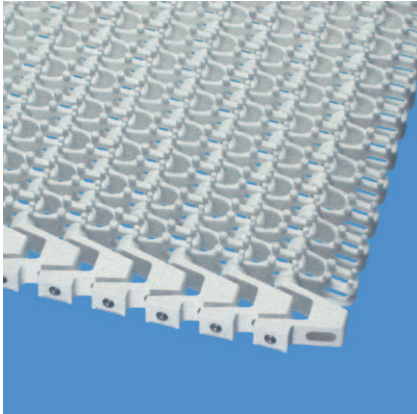
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 NTP | 45 % Opening | Nub top (round studs)

Open area (45 %) for excellent air circulation and drainage | Lattice shaped surface with 3.0 mm (0.12 in) high round studs and 8 % contact area | Side modules without NTP-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.0	100.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	3.94	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		18	1233	1000	225	10.1	2.07	0.0	5/100	41/212	●	●
POM-CR	WT	SS		25	1713	1800	405	13.1	2.68	0.0	-45/90	-49/194	●	●
<b>Mold to order belts</b>														
PE	WT	SS		10	685	NR	NR	11.2	2.29	0.0	-70/65	-94/149	●	●

NR = not recommended

☐ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

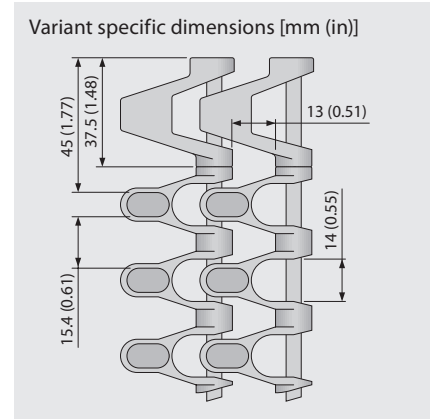
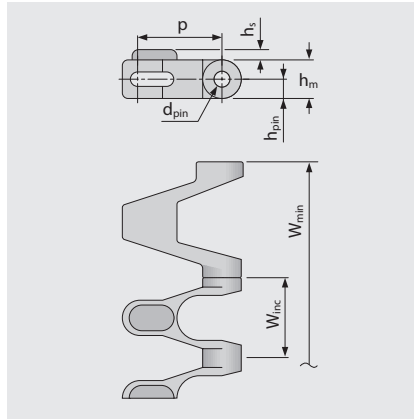
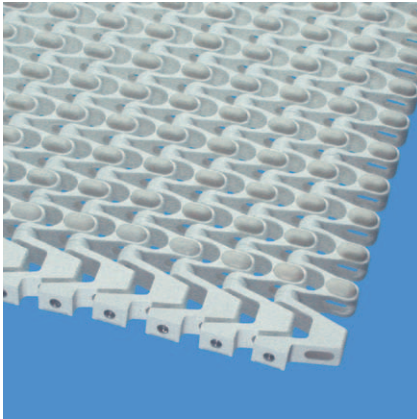
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-39 FRT1 | 39% Opening | Friction top (Design 1)

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Contact area 8% | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.2	100.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	3.94	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		R4	BG	18	1233	1000	225	10.2	2.09	0.0	5/100	41/212	●	●

■ BG (Beige), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

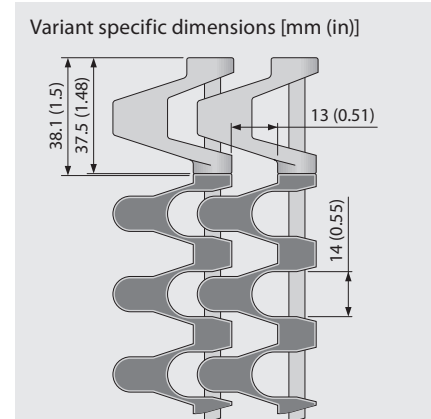
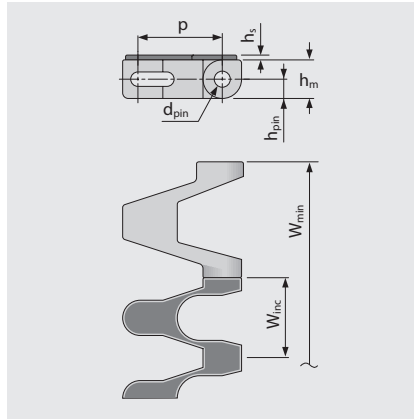
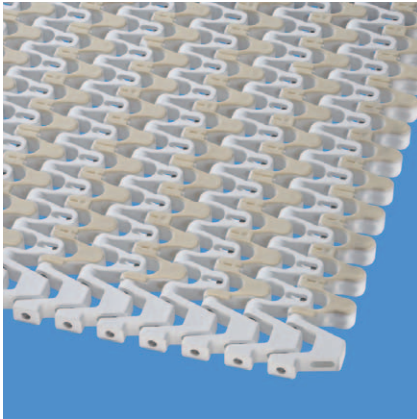
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-33 FRT2 | 33 % Opening | Friction top (Design 2)

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Integrated friction pads (flat) provide gentle grip | Contact area 47 % | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	1.5	100.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	3.94	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BK	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●

■ BG (Beige), ■ BK (Black), ■ BL (Blue), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

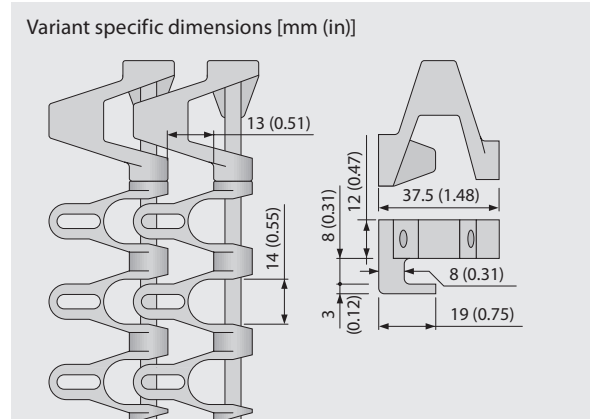
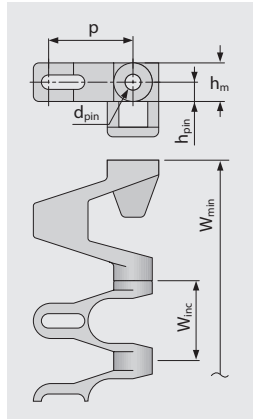
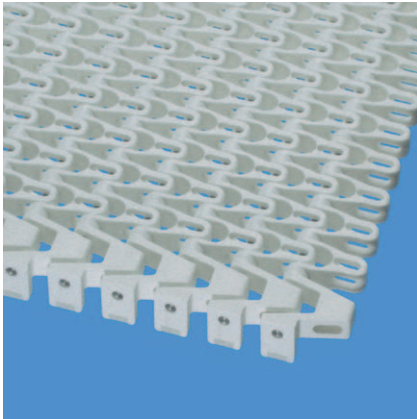
# SERIES 5 | BELT TYPES

siebling prolink  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 GRT G | 45 % Opening | Grid top · guided

Excellent air circulation and drainage | Contact area 42 % (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Lattice shaped surface and Hold Down Tabs | Allows utilisation of the entire belt width



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	0.0	100.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	3.94	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR	WT	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●
POM-CR	BL	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●
POM-CR	DB	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●
PP	WT	SS		18	1233	1000	225	10.0	2.05	0.0	5/100	41/212	●	●

### Mold to order belts

PE	WT	SS		10	685	NR	NR	11.0	2.25	0.0	-70/65	-94/149	●	●
PA*	BL	SS		20	1370	1440	324	12.8	2.62	0.0	-40/120	-40/248	●	●

NR = not recommended

\* Values valid for dry applications (RH <50%). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BL (Blue), ■ DB (Dark blue), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

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<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

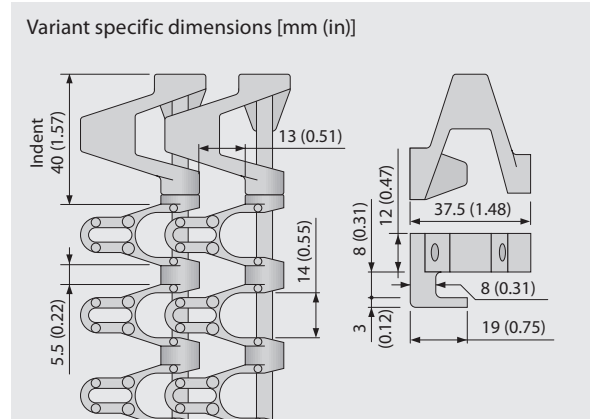
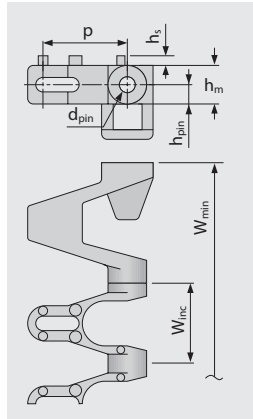
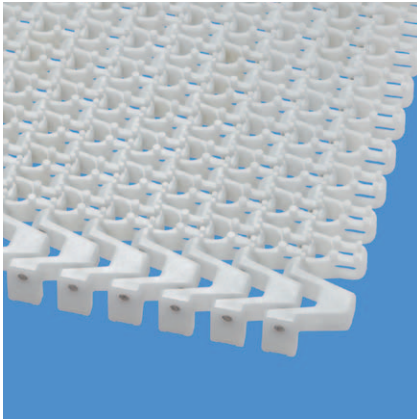
# SERIES 5 | BELT TYPES

siebling prolink  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 NTP G | 45 % Opening | Nub top (round studs) · guided

Open area (45 %) for excellent air circulation and drainage | Lattice shaped surface with 3.0 mm (0.12 in) high round studs and 8 % contact area | Side modules without NTP-surface | Allows utilisation of the entire belt width



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.0	100.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	3.94	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR	WT	SS		25	1713	1800	405	13.2	2.70	0.0	-45/90	-49/194	●	●
PP	WT	SS		18	1233	1000	225	10.2	2.09	0.0	5/100	41/212	●	●

□ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

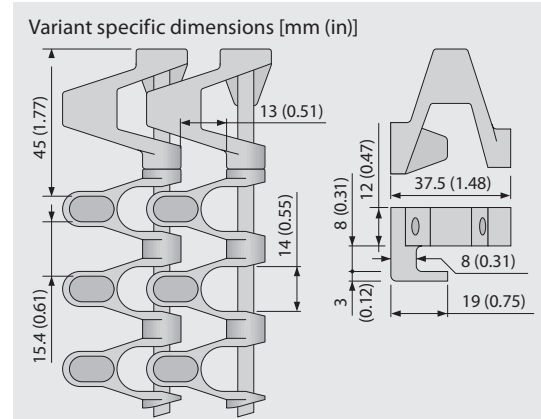
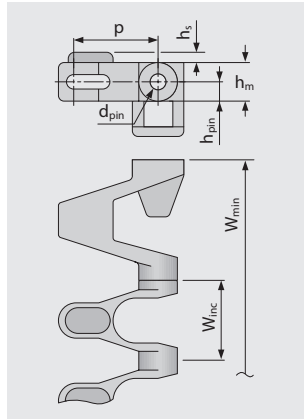
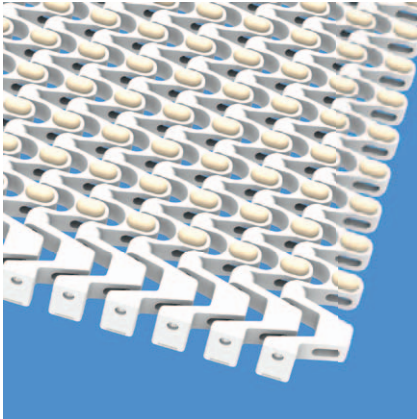
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-39 FRT1 G | 39% Opening | Friction top (Design 1) · guided

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Allows utilisation of the entire belt width | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.2	100.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	3.94	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		R4	BG	18	1233	1000	225	10.2	2.09	0.0	5/100	41/212	●	●

■ BG (Beige), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

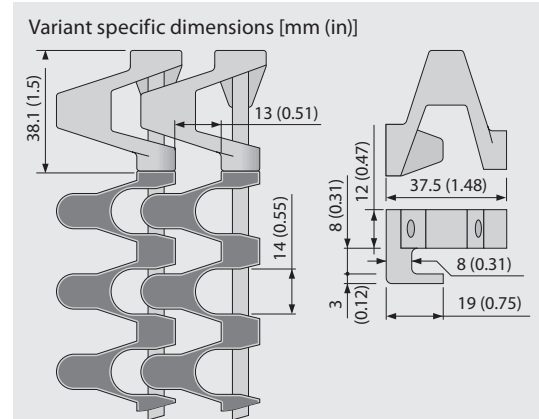
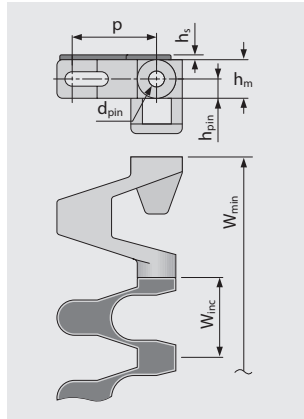
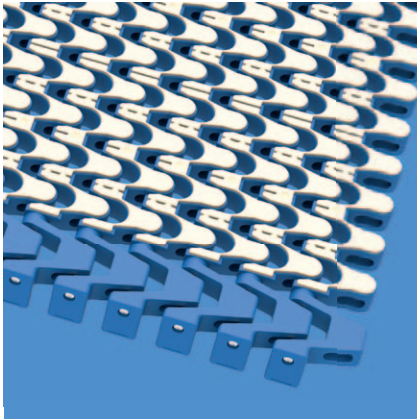
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-33 FRT2 G | 33 % Opening | Friction top (Design 2) · guided

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Contact area 47 % | Integrated friction pads (flat) provide gentle grip | Allows utilisation of the entire belt width | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	1.5	100.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	3.94	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BG	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BK	18	1233	1000	225	11.4	2.33	0.0	5/100	41/212	●	●

■ BG (Beige), ■ BK (Black), ■ BL (Blue), ■ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

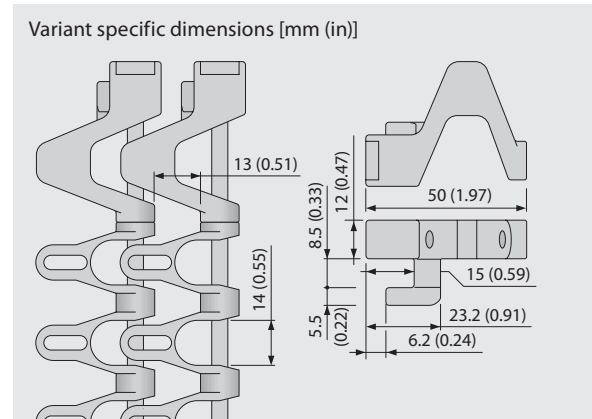
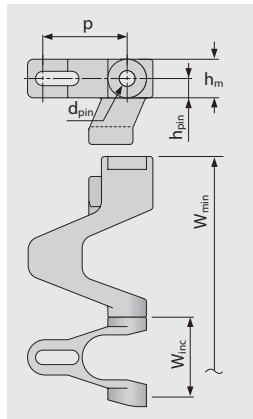
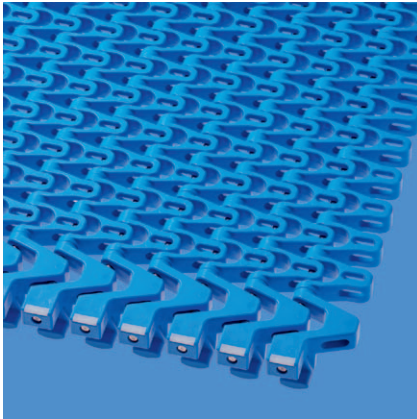
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 GRT RG | 45 % Opening | Grid top · reverse guided

Excellent air circulation and drainage | Lattice shaped surface and reversed Hold Down Tabs | Contact area 42 % (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Smooth surface | Allows utilisation of the entire belt width



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	0.0	125.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	4.92	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 500 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR	BL	SS		25	1713	2100	472	13.0	2.66	0.0	-45/90	-49/194	●	●

### Mold to order belts

PE	WT	SS		10	685	NR	NR	11.0	2.25	0.0	-70/65	-94/149	●	●
PP	WT	SS		18	1233	1200	270	10.0	2.05	0.0	5/100	41/212	●	●

NR = not recommended

■ BL (Blue), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

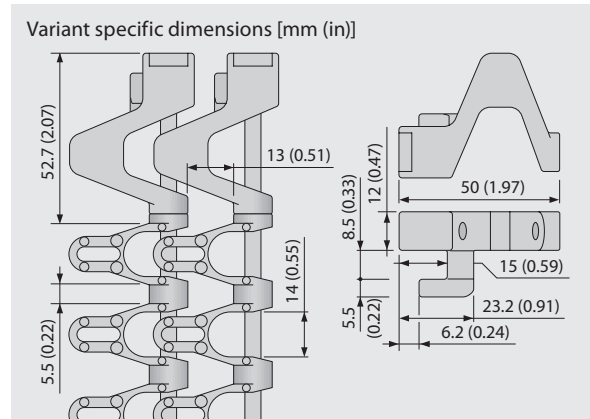
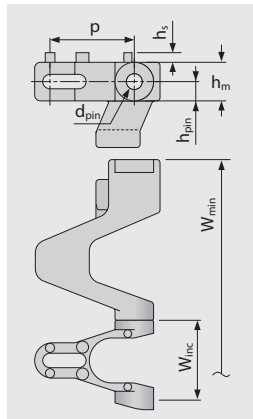
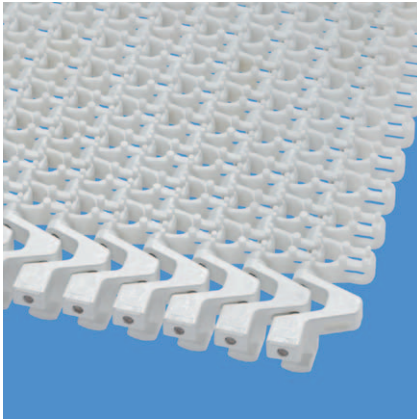
# SERIES 5 | BELT TYPES

siebling prolink  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 NTP RG | 45 % Opening | Nub top (round studs) · reverse guided

Excellent air circulation and drainage | With round studs for increased grip (8% contact area) | Allows utilisation of the entire belt width | Side modules only available without NTP-pattern



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.0	125.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	4.92	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 500 mm. Please see page III-19

### Mold to order belts<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR	WT	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●

□ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

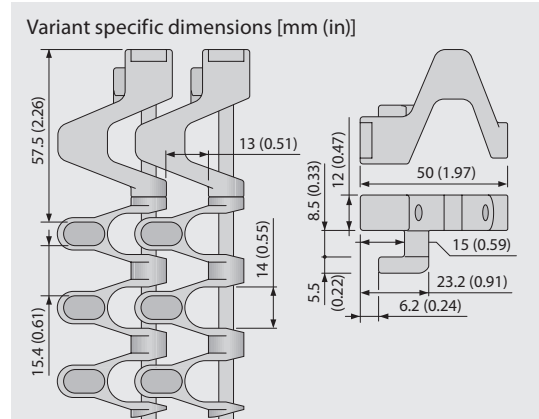
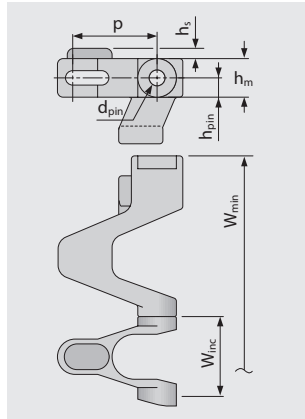
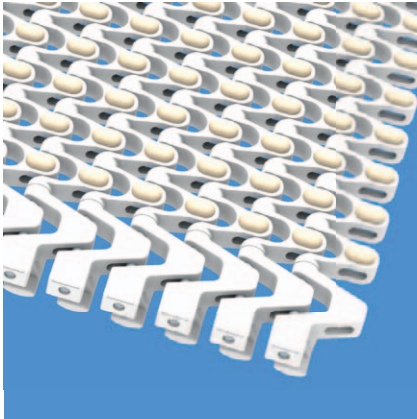
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-39 FRT1 RG | 39% Opening | Friction top (Design 1) · reverse guided

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Allows utilisation of the entire belt width | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.2	125.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	4.92	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 500 mm. Please see page III-19

### Mold to order belts<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR-PP	WT	SS		R4	BG	18	1233	2100	472	10.2	2.09	0.0	-45/90	-49/194	●	●

■ BG (Beige), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

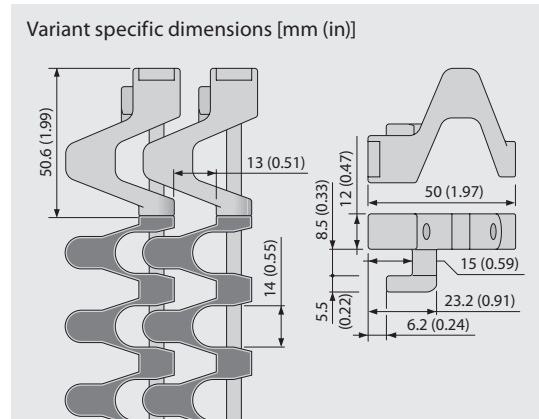
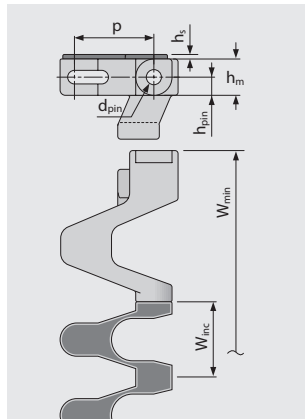
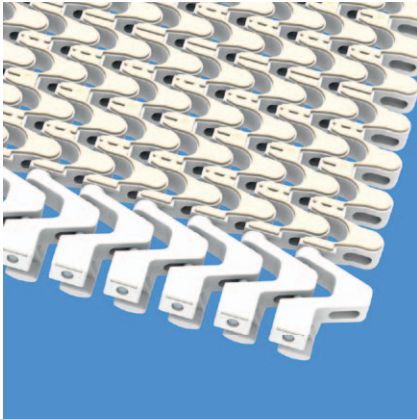
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-33 FRT2 RG | 33 % Opening | Friction top (Design 2) · reverse guided

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Contact area 47 % | Integrated friction pads (flat) provide gentle grip | Allows utilisation of the entire belt width | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	1.5	125.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	4.92	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 500 mm. Please see page III-19

### Mold to order belts<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR-PP	BL	SS		R7	BG	18	1233	2100	472	11.4	2.33	0.0	-45/90	-49/194	●	●
POM-CR-PP	WT	SS		R7	BG	18	1233	2100	472	11.4	2.33	0.0	-45/90	-49/194	●	●
POM-CR-PP	BL	SS		R7	BK	18	1233	2100	472	11.4	2.33	0.0	-45/90	-49/194	●	●

■ BG (Beige), ■ BK (Black), ■ BL (Blue), ■ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

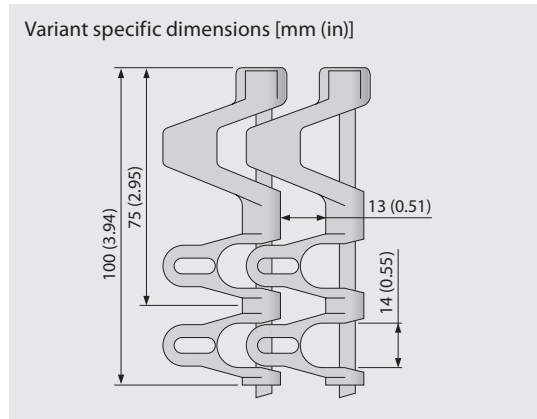
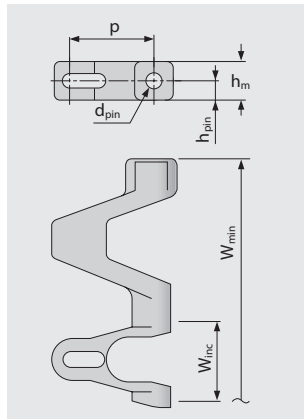
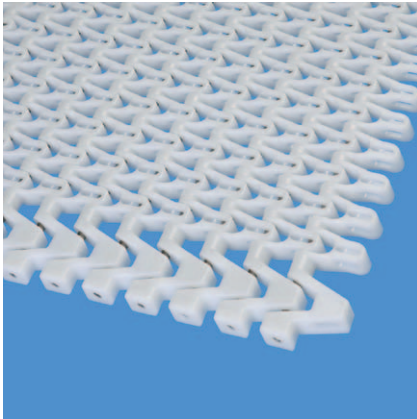
# SERIES 5 | BELT TYPES

siegling prolink  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 GRT ST | 45 % Opening | Grid top · strong

Excellent air circulation and drainage | Lattice shaped surface | Version with reinforced brick-laid side modules (75 mm/2.9 in and 100 mm/3.9 in) increases belt pull capacity



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	0.0	175.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	6.89	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●
PP	DB	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●
PP	BL	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●
POM-CR	WT	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●
POM-CR	DB	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●
POM-CR	BL	SS		25	1713	2100	472	13.2	2.7	0.0	-45/90	-49/194	●	●

### Mold to order belts

PE	WT	SS		10	685	NR	NR	11.1	2.27	0.0	-70/65	-94/149	●	●
PA*	BL	SS		20	1370	1680	378	13.0	2.66	0.0	-40/120	-40/248	●	●

NR = not recommended

\* Values valid for dry applications (RH < 50%). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BL (Blue), ■ DB (Dark blue), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

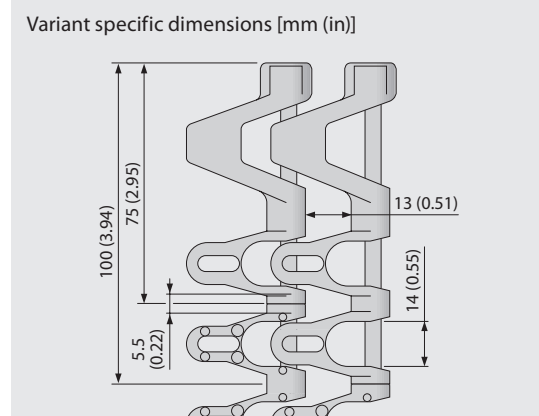
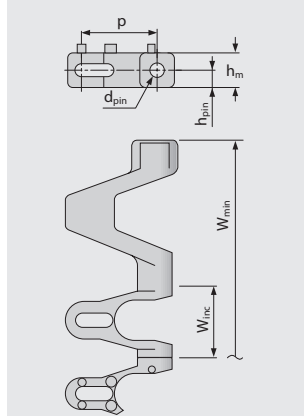
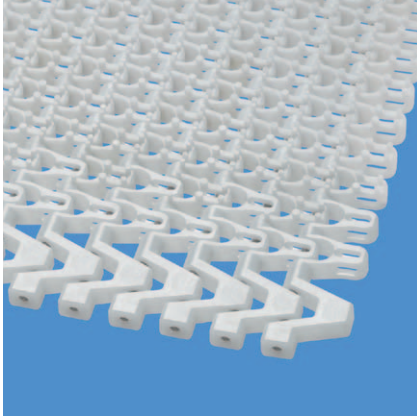
# SERIES 5 | BELT TYPES

**siegling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 NTP ST | 45 % Opening | Nub top (round studs) · strong

Excellent air circulation and drainage | With round studs for increased grip (8 % contact area) | Version with reinforced brick-laid side modules increases belt pull capacity | Side modules only available without NTP-pattern



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.0	175.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.12	6.89	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●

□ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

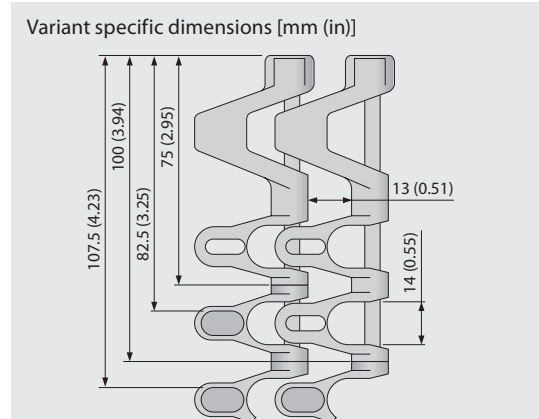
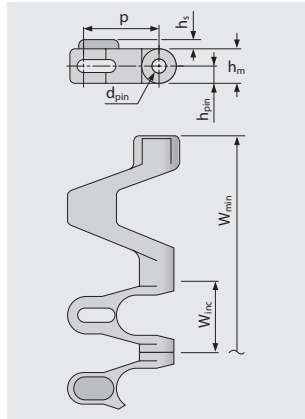
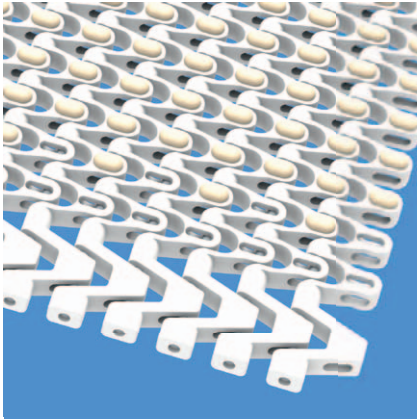
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-39 FRT1 ST | 39% Opening | Friction top (Design 1) · strong

Excellent air circulation and drainage | Integrated friction pads (raised) increase surface friction and provide gentle grip | Reinforced side modules increase belt pull capacity | Side modules without FRT-surface



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	3.2	175.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.13	6.89	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		R4	BG	18	1233	1200	270	10.2	2.09	0.0	5/100	41/212	●	●

■ BG (Beige), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

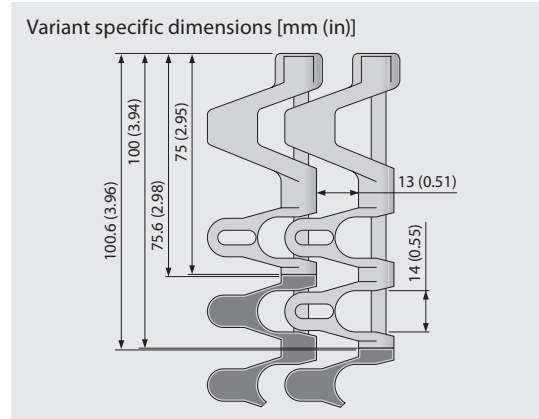
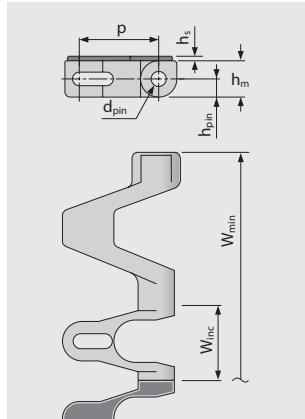
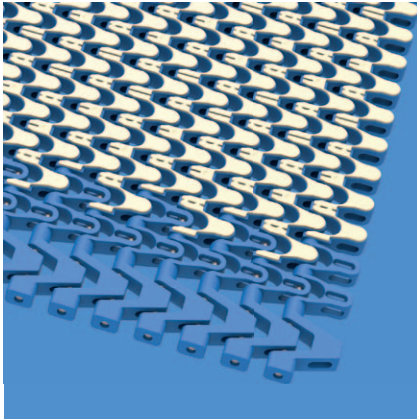
# SERIES 5 | BELT TYPES

**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-33 FRT2 ST | 33 % Opening | Friction top (Design 2) · strong

Open area (33 % for full FRT2 surface area) for excellent air circulation and drainage | Contact area 47 % | Lattice shaped surface | Version with reinforced brick-laid side modules increases belt pull capacity



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	1.5	175.0	25.0	±0.3	2 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.06	6.89	0.98	±0.3	2 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Rubber		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	BL	SS		R7	BG	18	1233	1200	270	11.4	2.33	0.0	5/100	41/212	●	●
PP	WT	SS		R7	BG	18	1233	1200	270	11.4	2.33	0.0	5/100	41/212	●	●
PP	BL	SS		R7	BK	18	1233	1200	270	11.4	2.33	0.0	5/100	41/212	●	●

Comment: ST types combinable with standard center curve modules, NTP, FRT.

ST types not combinable with Guided (G), Side Guards (SG) or Bearing Tab (BT). Please contact us should you require small curve radii.

■ BG (Beige), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

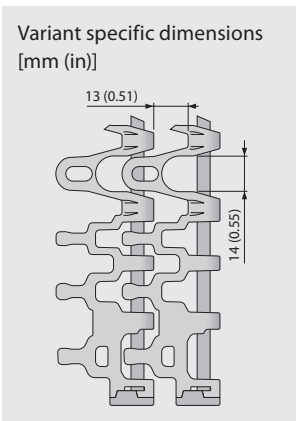
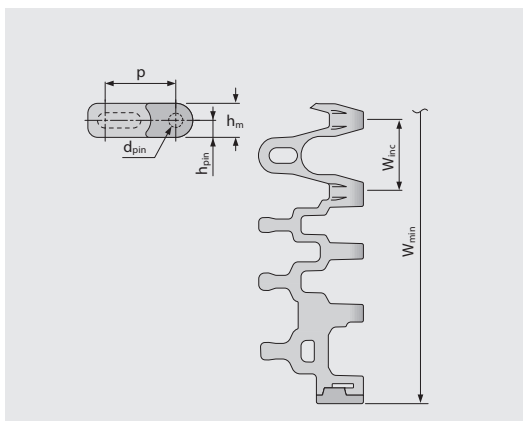
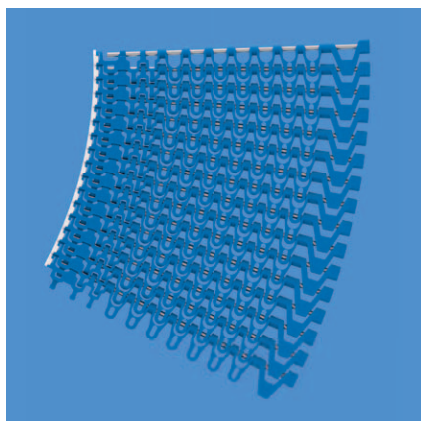
# COMBO | BELT TYPES

siegling prolink  
modular belts

Side flexing belt | Pitch 25 mm (0.98 in)

## S5 ST/S11-45 GRT CW | 45 % Opening | Grid top | Clockwise or right hand curve

Combination of high belt pull capacity and small radii in one directional curve layouts | Excellent air circulation and drainage | 42 % contact area (Largest opening: 14 x 13 mm/0.55 x 0.51 in) | Lattice shaped surface | SS pins for high stiffness



### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	0.0	175.0	25.0	±0.3	1.45 x W <sub>B</sub>	25.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	6.89	0.98	±0.3	1.45 x W <sub>B</sub>	0.98	1.97	2.95	0.98

r1: Higher factor for W<sub>B</sub> > 1000 mm of 1.55 applies

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
PP	WT	SS		18	1233	1200	270	10.2	2.09	0.2	5/100	41/212	●	●
PP	BL	SS		18	1233	1200	270	10.2	2.09	0.2	5/100	41/212	●	●
POM-CR	WT	SS		25	1713	2100	472	13.2	2.70	0.0	-45/90	-49/194	●	●
POM-CR	BL	SS		25	1713	2100	472	13.2	2.70	0.0	-45/90	-49/194	●	●
PA*	BL	SS		20	1370	1680	378	13.0	2.66	0.6	-40/120	-40/248	●	●

\* Values valid for dry applications (RH <50 %). Belts in PA material will absorb water in wet environments, causing them to expand and reduce the nominal belt pull capacity.

■ BL (Blue), □ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



MOVEMENT SYSTEMS

# SERIES 5 | BELT TYPES

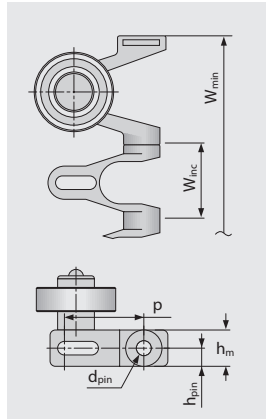
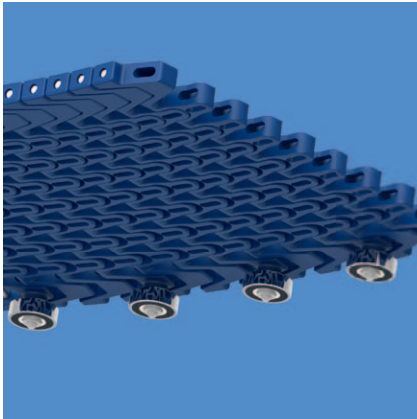
**siebling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

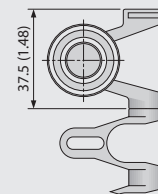
## S5-45 GRT BT | 45 % Opening | Bearing Tab Module\*

Ball-bearing support to minimize friction force at the belt edge (high speed, reduce dust, save energy)

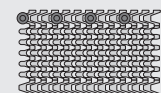
\* The modules will be delivered without ball-bearings. Ball-bearing DIN 625-6000 2RS (or similar) could be used.



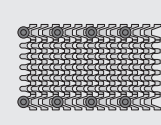
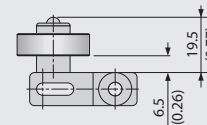
Variant specific dimensions [mm (in)]



Standard configuration:  
BT in every 3rd row  
(minimum every 2nd row)



CW or CCW



S-Curve

### Belt dimensions

	p	d <sub>pin</sub>	h <sub>m</sub>	h <sub>pin</sub>	h <sub>s</sub>	W <sub>min</sub>	W <sub>inc</sub>	W <sub>tol</sub>	Minimum flex radii <sup>1)</sup>				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	25.0	5.0	12.0	6.0	0.0	100.0	25.0	±0.3	2 x W <sub>B</sub>	50.0	50.0	75.0	25.0
inch	0.98	0.2	0.47	0.24	0.0	3.94	0.98	±0.3	2 x W <sub>B</sub>	1.97	1.97	2.95	0.98

r1: Smaller factors apply for W<sub>B</sub> < 300 mm. Please see page III-19

### Available standard materials<sup>4)</sup>

Belt		Pin		Nominal belt pull, straight		Nominal belt pull, curve		Weight**		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[N]	[lb]	[kg/m²]	[lb/ft²]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM-CR	DB	SS		25	1713	1800	405	13.0	2.66	0.0	-45/90	-49/194	●	●

\*\* Belt weight: Please calculate 18 g extra for each ball-bearing

### Additional information

Compatible belt types: S5-45 GRT / NTP / (FRT1 / FRT2 in PP)

Friction coefficient in curve: 0.04

Standard belt configuration: BT in every 3rd row (min. every 2nd row). CCW and CW → BT on the inside of the curve. S-curve → BT on both sides. Reduced spacing will improve smooth belt running behaviour

Smallest sprocket size: Depends on belt configuration (BT every 2nd row → min. sprocket Z11 – only with RD hub)

■ DB (Dark blue)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

<sup>1)</sup> Flex radii: r1 = side flex, r2 = front flex on roller, r3 = back flex on load bearing roller, r4 = back flex on Hold Down shoe, r5 = back flex on roller

<sup>2)</sup> Complies with FDA 21 CFR

<sup>3)</sup> Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds

<sup>4)</sup> More materials and colors on request



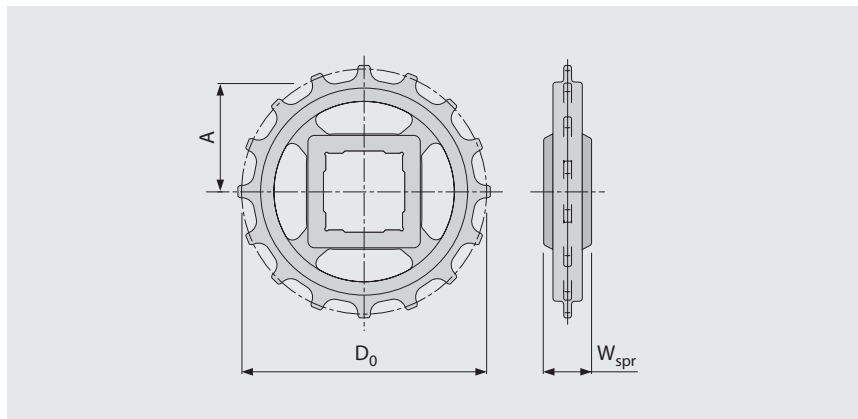
MOVEMENT SYSTEMS

# SERIES 5 | SPROCKETS

siegling prolink  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5 SPR | Sprockets



### Main dimensions

Sprocket size (Number of teeth)		Z6	Z9	Z11	Z12	Z16	Z18	Z20
W <sub>spr</sub>	mm	24.0	24.0	24.0	24.0	24.0	24.0	24.0
	inch	0.94	0.94	0.94	0.94	0.94	0.94	0.94
D <sub>0</sub>	mm	49.6	72.6	88.0	95.8	127.2	142.8	158.5
	inch	1.95	2.86	3.46	3.77	5.01	5.62	6.24
A <sub>max</sub>	mm	18.8	30.3	38.0	41.9	57.6	65.4	73.3
	inch	0.74	1.19	1.50	1.65	2.27	2.57	2.89
A <sub>min</sub>	mm	16.3	28.5	36.5	40.5	56.5	64.4	72.4
	inch	0.64	1.12	1.44	1.59	2.22	2.54	2.85

### Shaft bores (● = Round, ■ = Square; Gray: not possible with S5 RG and G belts)

25	mm		●/■	●	●/■	●	●	●
30	mm		●/■	●	●	●	●	●
40	mm			■	●/■	●/■	●/■	●/■
0.75	inch	●						
1	inch		●/■	●	●/■	●	●	●
1.25	inch		●/■	●	●	●	●	●
1.5	inch			■	●/■	●/■	●/■	●/■

Material: PA, Color: LG

■ LG (Light gray)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

For detailed sprocket and shaft dimensions see appendix 6.3.



MOVEMENT SYSTEMS

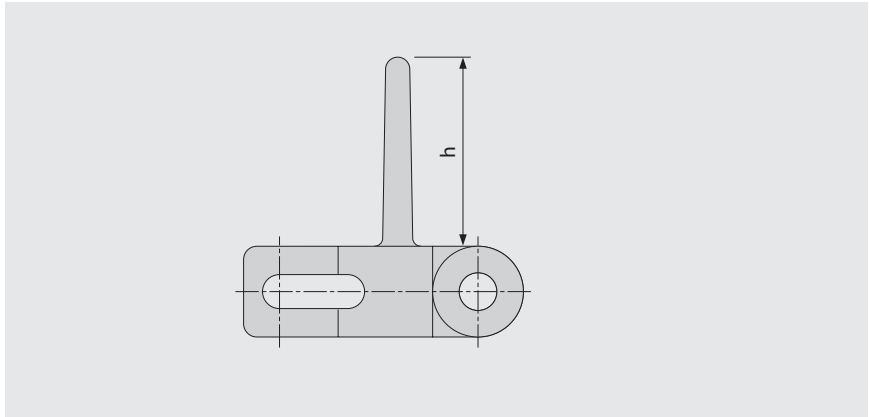
# SERIES 5 | PROFILES

**siegling prolink**  
modular belts

Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5-45 GRT PMC

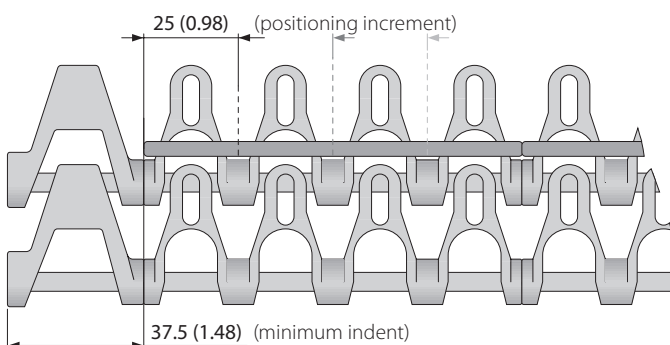
Open version (45 %) base module for drainage



### Basic data

Material	Color	Height (h)	
		25 mm 1 inch	50 mm 2 inch
PE	WT	●	●
POM	BL	●	●
POM	DB	●	●
POM	UC	●	●
POM	WT	●	●
PP	DB	●	●
PP	WT	●	●

Molded width: 100 mm (3.9 in)



PMC also available  
for G, RG, ST types.

G = Indent 37.5 (1.48)

RG = Indent 50 (1.97)

ST = Indent 75 (2.95)

■ BL (Blue), ■ DB (Dark blue), ■ UC (Uncolored), ■ WT (White)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".

All imperial dimensions (inches) are rounded off.

Note: Use of accessory in a belt may impact on the minimum design radii. Please see chapter 6.3 for further information.



MOVEMENT SYSTEMS

# SERIES 5 | SIDE GUARDS

**siegling prolink**  
modular belts

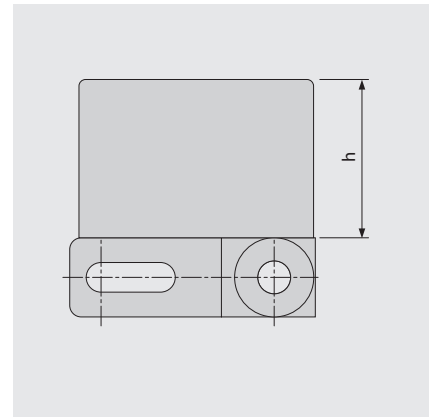
Side flexing and spiral belt | Pitch 25 mm (0.98 in)

## S5 SG | Side guards

For retention of bulk products

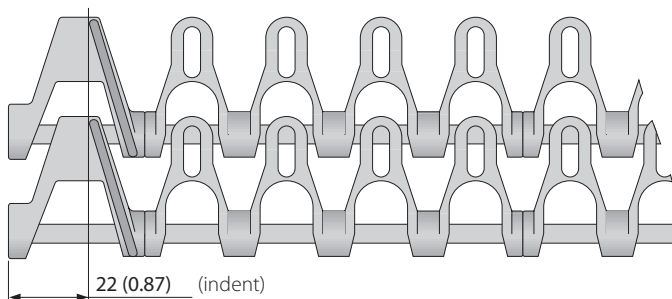


Recommended running direction



### Basic data

Material	Color	Height (h)	
		25 mm 1 inch	50 mm 2 inch
POM-CR	BL		●
POM-CR	UC	●	●



■ BL (Blue), □ UC (Uncolored)

All measurements and tolerances apply at 21 °C; for temperature deviations please see Prolink manual chapter 4.4 "Temperature influence".















All imperial dimensions (inches) are rounded off.

Note: Use of accessory in a belt may impact on the minimum design radii. Please see chapter 6.3 for further information.



MOVEMENT SYSTEMS

# LEGEND

<b>① Series</b>		<b>④ Type</b>		<b>⑥ Material</b>		<b>⑦ Color*</b>	
S1 ... S15		<b>A90</b> Angle 90° to conveying direction		<b>PA</b> Polyamide		<b>AT</b> Anthracite	
<b>② Open area/Sprocket size</b>		<b>BPU</b> Bucket profile		<b>PA-HT</b> Polyamide high temperature		<b>BG</b> Beige	
Percentage open area Format: xx E.g. 20 = 20 %		<b>CCW</b> Counter clockwise		<b>PBT</b> Polybutylentere-phthalate		<b>BK</b> Black	
For sprockets: number of teeth Format: "Z"xx E.g. Z12 = 12 teeth		<b>CLP</b> Clip		<b>PE</b> Polyethylene		<b>BL</b> Blue	
<b>③ Surface pattern</b>		<b>CM</b> Center module		<b>PE-MD</b> PE metal detectable		<b>DB</b> Dark blue	
<b>BSL</b> Base module for slider		<b>CW</b> Clockwise		<b>POM</b> Polyoxymethylene (Polyacetal)		<b>GN</b> Green	
<b>CTP</b> Cone top		<b>FPL</b> Finger plate		<b>POM-CR</b> POM cut resistant		<b>LB</b> Light blue	
<b>CUT</b> Curved top		<b>IDL</b> Idler		<b>POM-HC</b> POM highly conductive		<b>LG</b> Light gray	
<b>FLT</b> Flat top (smooth)		<b>PIN</b> Coupling rod		<b>POM-MD</b> POM metal detectable		<b>OR</b> Orange	
<b>FRT-OG</b> Friction top without High Grip insert		<b>PMC</b> Profile module center		<b>POM-PE</b> POM side modules + PE center modules		<b>RE</b> Red	
<b>FRT(X)</b> Friction top (Design X)		<b>PMU</b> Profile module universal		<b>POM-PP</b> POM side modules + PP center modules		<b>TQ</b> Turquoise	
<b>GRT</b> Grid top		<b>PMU lxx</b> Profile module universal with indent xx = indent in mm		<b>PP</b> Polypropylene		<b>TR</b> Transparent	
<b>LRB</b> Lateral rib		<b>RI</b> High Grip insert		<b>PXX-HC</b> Self-extinguishing highly conductive material		<b>UC</b> Uncolored	
<b>MOD</b> Modified module shape		<b>RTR</b> Retaining ring		<b>R1</b> TPE 80 Shore A, PP		<b>WT</b> White	
<b>NCL</b> No cling		<b>SG</b> Module with sideguard		<b>R2</b> EPDM 80 Shore A, vulcanized		<b>YL</b> Yellow	
<b>NPY</b> Negative pyramid		<b>SLI</b> Slider		<b>R3</b> TPE 70 Shore A, POM		<b>⑧ Height/Diameter/ Bore size and style</b>	
<b>NSK</b> Non skid		<b>SML</b> Side module, left		<b>R4</b> TPE 86 Shore A, PP		Height in mm (in) Format: Hxxx	
<b>NTP</b> Nub top (round studs)		<b>SMR</b> Side module, right		<b>R5</b> TPE 52 Shore A, PP		Pin diameter in mm (in) Format: Dxxx	
<b>RAT</b> Radius top		<b>SMU</b> Side module, universal/both sides		<b>R6</b> TPE 63 Shore A, POM		Bore size: SQ (= square) or RD (= round) either in mm or inches Format: SQxxMM or RDxxIN	
<b>RRB</b> Raised rib		<b>SPR</b> Sprocket		<b>R7</b> TPE 50 Shore A, PP		<b>⑨ Length/Width</b>	
<b>RSA</b> Reduced surface area		<b>TPL</b> Turning panel, left		<b>R8</b> TPE 55 Shore A, PE		Pins Length in mm (in) Format: Lxxx	
<b>RTP</b> Roller top		<b>TPR</b> Turning panel, right		<b>SER</b> Self-extinguishing TPE		Module width in mm (in) Format: Wxxx	
<b>SRS</b> Slip-resistant surface		<b>UM</b> Universal module		<b>SS</b> Stainless steel			
		<b>⑤ Style</b>		<b>TPC1</b> Thermoplastic Copolyester			
		<b>BT</b> Bearing tab		<b>-HA</b> Supports the HACCP concept			
		<b>DR</b> Double row sprocket		<b>-HW</b> High Wear resistant material			
		<b>F1, F2, F3 ...</b> Collapse factor modules					
		<b>G</b> Guided					
		<b>GT</b> Guiding tabs					
		<b>HD</b> Hold Down					
		<b>RG</b> Reversed guided					
		<b>SG</b> Side guard					
		<b>SP</b> Split sprocket					
		<b>ST</b> Strong					

\* For each series' standard colors please refer to the table of materials for each belt (chapter 1.2). A number of other colors are available on request. Colors can vary from the original due to the print, production processes or material used.



MOVEMENT SYSTEMS