

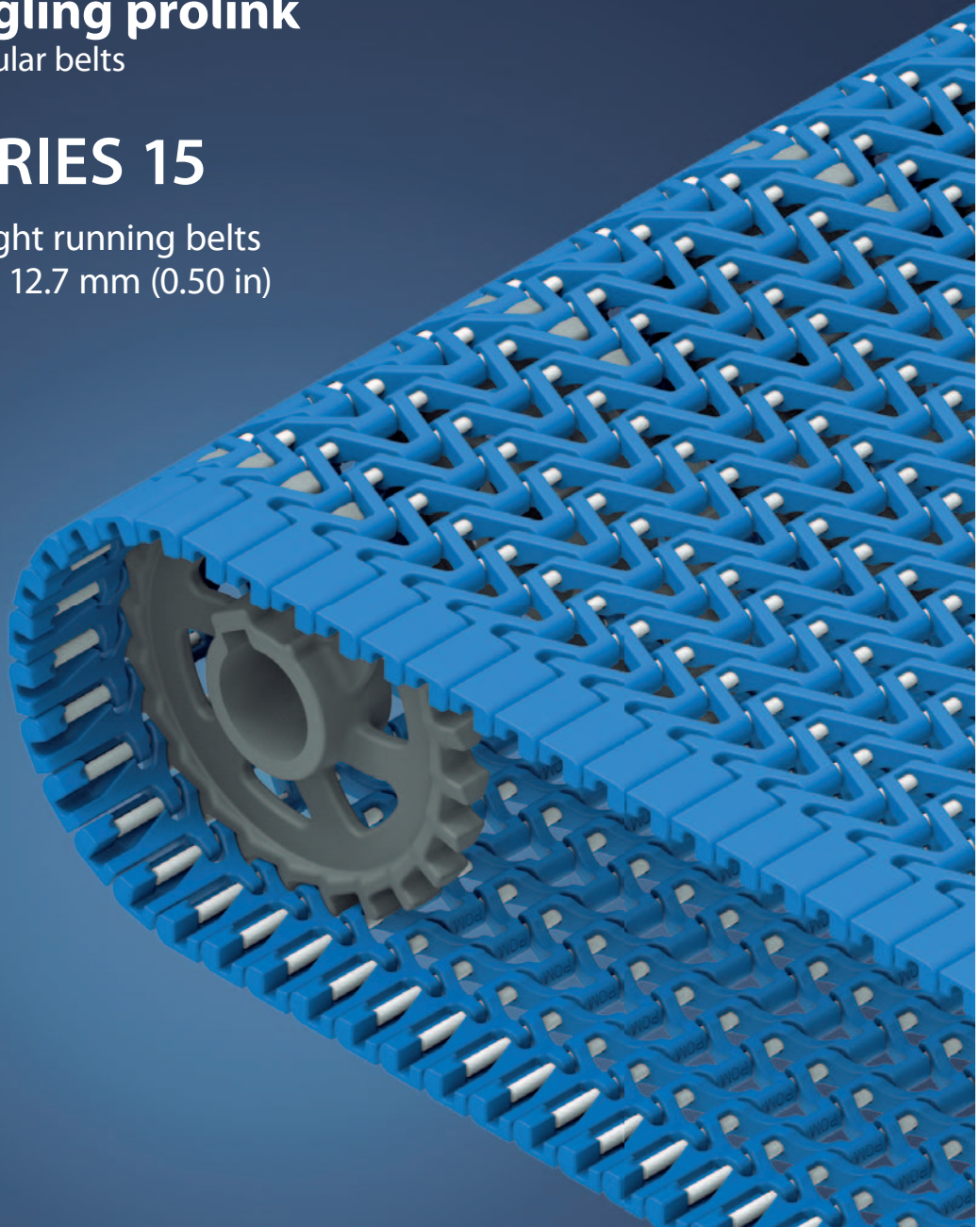
# EXCERPT FROM PROLINK ENGINEERING MANUAL

02/22 (Ref-No. 888)

**siegling prolink**  
modular belts

## SERIES 15

Straight running belts  
Pitch 12.7 mm (0.50 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)

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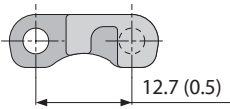
# SERIES 15 | OVERVIEW

siegling prolink  
modular belts

Straight running belts | Pitch 12.7 mm (0.50 in)

Belts for light-duty food applications utilizing 12.7 mm (0.5 in) nose bars

## Side view scale 1:1



## Design characteristics

- Mini-pitch belt with large open area for optimum airflow
- Scalloped underside facilitates smooth product transfer over a 12.7 mm (0.5 in) diameter nose bar.
- Open hinge for improved sanitation
- Narrow 25 mm (1 in) width increments offer superior support of conveyed products
- Solid and robust edge design incorporating improved pin retention
- Headless one-piece pin for easy installation and removal
- Sprockets with large solid tooth insures superior load transmission and long wear life

## Basic data

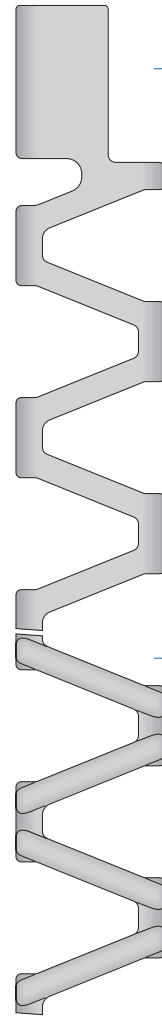
Pitch	12.7 mm (0.50 in)
Belt width min.	203.2 mm (8 in)
Width increments	25.4 mm (1 in)
Hinge pins	3.4 mm (0.13 in) made of plastic (PBT, PP). One-piece up to a belt width of 4000 mm (157.5 in).

## Sprockets

in different sizes with round or square sprocket bore



## Available surface pattern and opening area



### S15-47 GRT

Open (47%), lattice-shaped surface

### S15-47 RSA

Open (47%), lattice-shaped surface with reduced surface area



NSF-compliant from these certified Forbo plants:  
Huntersville (USA), Maharashtra (India), Malacky (Slovakia),  
NSW (Australia), Pinghu (China), Shizuoka (Japan),  
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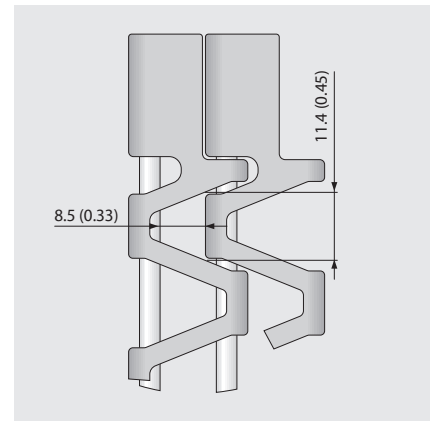
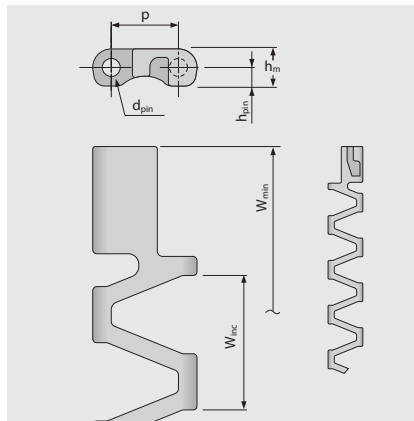
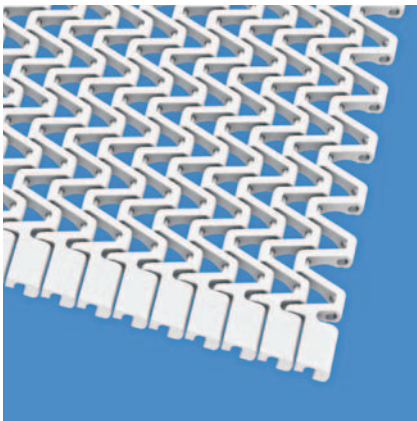
# SERIES 15 | BELT TYPES

siegling prolink  
modular belts

Straight running belt | Pitch 12.7 mm (0.5 in)

## S15-47 GRT | 47% Opening | Grid top

Open area (47%) for excellent air circulation and drainage | 31% contact area (Largest opening: 11.4 x 7.5 mm/0.45 x 0.30 in);  
Smooth surface | Easy-to-clean



### 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 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	12.7	3.4	7.0	3.5	–	203.2	25.4	±0.20	–	6.4	25.4	38.1	12.7
inch	0.5	0.13	0.28	0.14	–	8.0	1.0	±0.20	–	0.25	1.0	1.5	0.5

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

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM	BL	PBT	UC	5	343	4.3	0.88	-0.4	-45/90	-49/194	●	●
POM	WT	PBT	UC	5	343	4.3	0.88	-0.4	-45/90	-49/194	●	●
PP	BL	PP	WT	2.5	171	2.8	0.58	-1.0	5/100	41/212	●	●
PP	WT	PP	WT	2.5	171	2.8	0.58	-1.0	5/100	41/212	●	●
PA*	BL	PBT	UC	4.5	308	3.7	0.75	0.4	-40/120	-40/248	●	●

Mold to order belts												
PP	BL	PBT	UC	2.8	192	2.8	0.58	-1.0	5/100	41/212	●	●
PP	WT	PBT	UC	2.8	192	2.8	0.58	-1.0	5/100	41/212	●	●

\* 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), □ 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.

<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

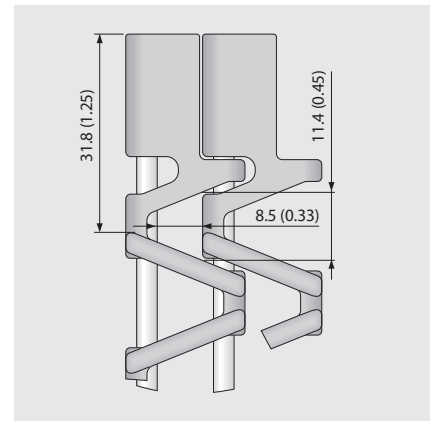
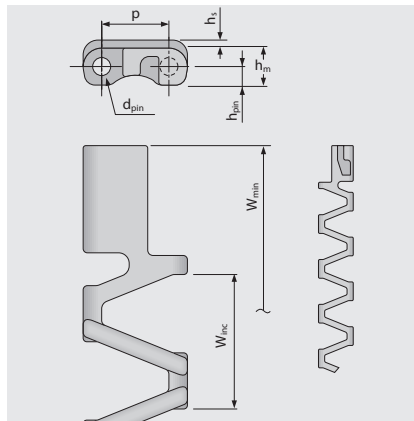
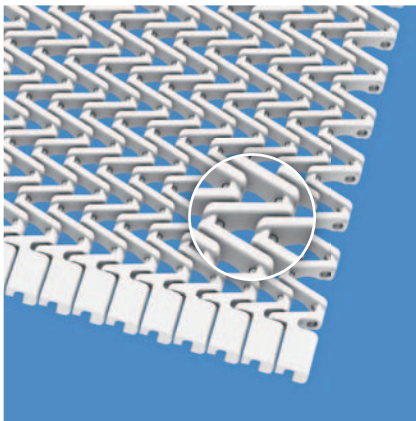
# SERIES 15 | BELT TYPES

siegling prolink  
modular belts

Straight running belt | Pitch 12.7 mm (0.5 in)

## S15-47 RSA | 47 % Opening | Reduced surface area

Open area (47%) for excellent air circulation and drainage | 20% contact area (Largest opening: 11.4 x 7.5 mm/0.45 x 0.30 in);  
Smooth surface | Easy-to-clean



### 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 C <sub>c</sub> x W <sub>B</sub>	r2	r3	r4	r5
mm	12.7	3.4	7.0	3.5	1.5	203.2	25.4	±0.20	–	6.4	25.4	38.1	12.7
inch	0.5	0.13	0.28	0.14	0.06	8.0	1.0	±0.20	–	0.25	1.0	1.5	0.5

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

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m <sup>2</sup> ]	[lb/ft <sup>2</sup> ]	[%]	[°C]	[°F]	FDA <sup>2)</sup>	EU <sup>3)</sup>
POM	BL	PBT	UC	5	343	5.2	1.07	-0.4	-45/90	-49/194	●	●
POM	WT	PBT	UC	5	343	5.2	1.07	-0.4	-45/90	-49/194	●	●
PP	BL	PP	WT	2.5	171	3.4	0.7	-1.0	5/100	41/212	●	●
PP	WT	PP	WT	2.5	171	3.4	0.7	-1.0	5/100	41/212	●	●
PA*	BL	PBT	UC	4.5	308	4.5	0.91	0.4	-40/120	-40/248	●	●

### Mold to order belts

PP	BL	PBT	UC	2.8	192	3.4	0.7	-1.0	5/100	41/212	●	●
PP	WT	PBT	UC	2.8	192	3.4	0.7	-1.0	5/100	41/212	●	●

\* 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), □ 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.

<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

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



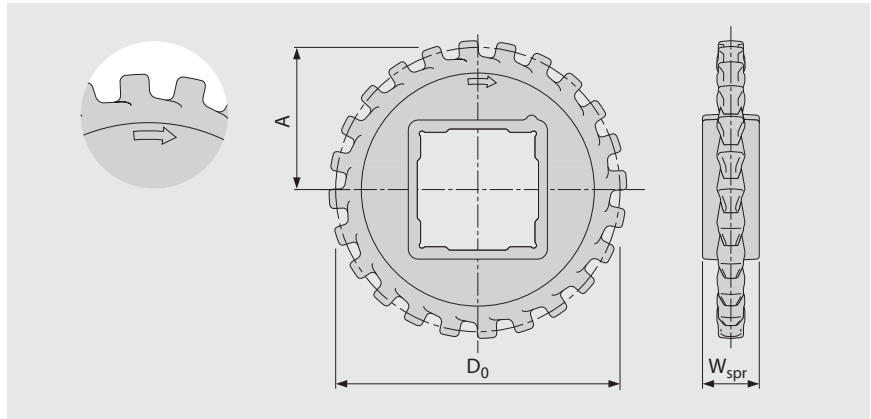
MOVEMENT SYSTEMS

# SERIES 15 | SPROCKETS

siegling prolink  
modular belts

Straight running belt | Pitch 12.7 mm (0.5 in)

## S15 SPR | Sprockets



### Main dimensions

Sprocket size (Number of teeth)		Z12	Z14	Z17	Z19	Z24	Z36
W <sub>spr</sub>	mm	20.0	20.0	20.0	20.0	20.0	20.0
	inch	0.79	0.79	0.79	0.79	0.79	0.79
D <sub>0</sub>	mm	50.6	58.9	71.3	79.6	100.4	150.3
	inch	1.99	2.32	2.81	3.13	3.95	5.92
A <sub>max</sub>	mm	21.8	25.9	32.1	36.3	46.7	71.6
	inch	0.86	1.02	1.26	1.43	1.84	2.82
A <sub>min</sub>	mm	21.0	25.3	31.6	35.8	46.3	71.4
	inch	0.83	1.00	1.24	1.41	1.82	2.81

### Shaft bores (● = Round, ■ = Square)

20	mm		●	●			
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

Number of sprockets (sprocket spacing distance) see chapter 3.2



MOVEMENT SYSTEMS

# LEGEND

① Series	
S1 ... S18	





② Open area/Sprocket size	
Percentage open area	
Format: xx	
E.g. 20 = 20%	
For sprockets: number of teeth	
Format: "Z"xx	
E.g. Z12 = 12 teeth	

③ Surface pattern	
<b>BSL</b>	Base module for slider
<b>CTP</b>	Cone top
<b>CUT</b>	Curved top
<b>FLT</b>	Flat top (smooth)
<b>FRT-OG</b>	Friction top without High Grip insert
<b>FRT(X)</b>	Friction top (Design X)
<b>GRT</b>	Grid top
<b>HDK</b>	High Deck
<b>LRB</b>	Lateral rib
<b>MOD</b>	Modified module shape
<b>NCL</b>	No cling
<b>NPY</b>	Negative pyramid
<b>NSK</b>	Non skid
<b>NSK2</b>	Non skid, nonwoven variant
<b>NTP</b>	Nub top (round studs)
<b>PRR</b>	Pin Retained Rollers
<b>RAT</b>	Radius top
<b>RRB</b>	Raised rib
<b>RSA</b>	Reduced surface area
<b>RTP</b>	Roller top
<b>SRS</b>	Slip-resistant surface

④ Type	
<b>BPU</b>	Bucket profile
<b>CAP</b>	Pin lock & belt edge sealing
<b>CCW</b>	Counter clockwise
<b>CLP</b>	Clip
<b>CM</b>	Center module
<b>CW</b>	Clockwise
<b>FPL</b>	Finger plate
<b>HDT</b>	Hold Down Tab
<b>IDL</b>	Idler
<b>PIN</b>	Coupling rod
<b>PMC</b>	Profile module center
<b>PMU</b>	Profile module universal
<b>PSP</b>	ProSnap
<b>RI</b>	High Grip insert
<b>RTR</b>	Retaining ring
<b>SG</b>	Module with sideguard
<b>SLI</b>	Slider
<b>SML</b>	Side module, left
<b>SMR</b>	Side module, right
<b>SMU</b>	Side module, universal/both sides
<b>SPR</b>	Sprocket
<b>TPL</b>	Turning panel, left
<b>TPR</b>	Turning panel, right
<b>UM</b>	Universal module
<b>WSC</b>	Wheel Stopper Center
<b>WSS</b>	Wheel Stopper Side

⑥ Style	
<b>1.7</b>	1.7 collapse factor
<b>2.2</b>	2.2 collapse factor
<b>2.2 G</b>	2.2 collapse factor, guided
<b>A90</b>	Angle 90° to conveying direction
<b>BT</b>	Bearing tab
<b>DR</b>	Double row sprocket
<b>F1, F2, F3 ...</b>	Collapse factor modules
<b>G</b>	Guided
<b>GT</b>	Guiding tabs
<b>HD</b>	Hold Down
<b>Ixx</b>	xx = indent in mm
<b>RG</b>	Reversed guided
<b>SG</b>	Side guard
<b>SP</b>	Split sprocket
<b>ST</b>	Strong

⑥ Material	
<b>PA</b>	Polyamide
<b>PA-HT</b>	Polyamide high temperature
<b>PBT</b>	Polybutylenterephthalate
<b>PE</b>	Polyethylene
<b>PE-MD</b>	PE metal detectable
<b>PLX</b>	Wear & impact improved polymer
<b>POM</b>	Polyoxymethylene (Polyacetal)
<b>POM-CR</b>	POM cut resistant
<b>POM-HC</b>	POM highly conductive
<b>POM-MD</b>	POM metal detectable
<b>POM-PE</b>	POM side modules + PE center modules
<b>POM-PP</b>	POM side modules + PP center modules
<b>PP</b>	Polypropylene
<b>PXX-HC</b>	Self-extinguishing highly conductive material
<b>R1</b>	TPE 80 Shore A, PP
<b>R2</b>	EPDM 80 Shore A, vulcanized
<b>R3</b>	TPE 70 Shore A, POM
<b>R4</b>	TPE 86 Shore A, PP
<b>R5</b>	TPE 52 Shore A, PP
<b>R6</b>	TPE 63 Shore A, POM
<b>R7</b>	TPE 50 Shore A, PP
<b>R8</b>	TPE 55 Shore A, PE
<b>SER</b>	Self-extinguishing TPE
<b>SS</b>	Stainless steel
<b>TPC1</b>	Thermoplastic Copolyester
<b>-HA</b>	Supports the HACCP concept
<b>-HW</b>	High Wear resistant material

⑦ Color*		
<b>AT</b>	Anthracite	
<b>BG</b>	Beige	
<b>BK</b>	Black	
<b>BL</b>	Blue	
<b>DB</b>	Dark blue	
<b>GN</b>	Green	
<b>LB</b>	Light blue	
<b>LG</b>	Light gray	
<b>OR</b>	Orange	
<b>RE</b>	Red	
<b>TQ</b>	Turquoise	
<b>UC</b>	Uncolored	
<b>WT</b>	White	
<b>YL</b>	Yellow	

⑧ Height/Diameter/ Bore size and style	
Height in mm (in)	
Format: Hxxx	
Pin diameter in mm (in)	
Format: Dxxx	
Bore size: SQ (= square) or RD (= round)	
either in mm or inches	
Format: SQxxMM or RDxxIN	

⑨ Length/Width	
Pins Length in mm (in)	
Format: Lxxx	
Module width in mm (in)	
Format: Wxxx	

\* 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.