

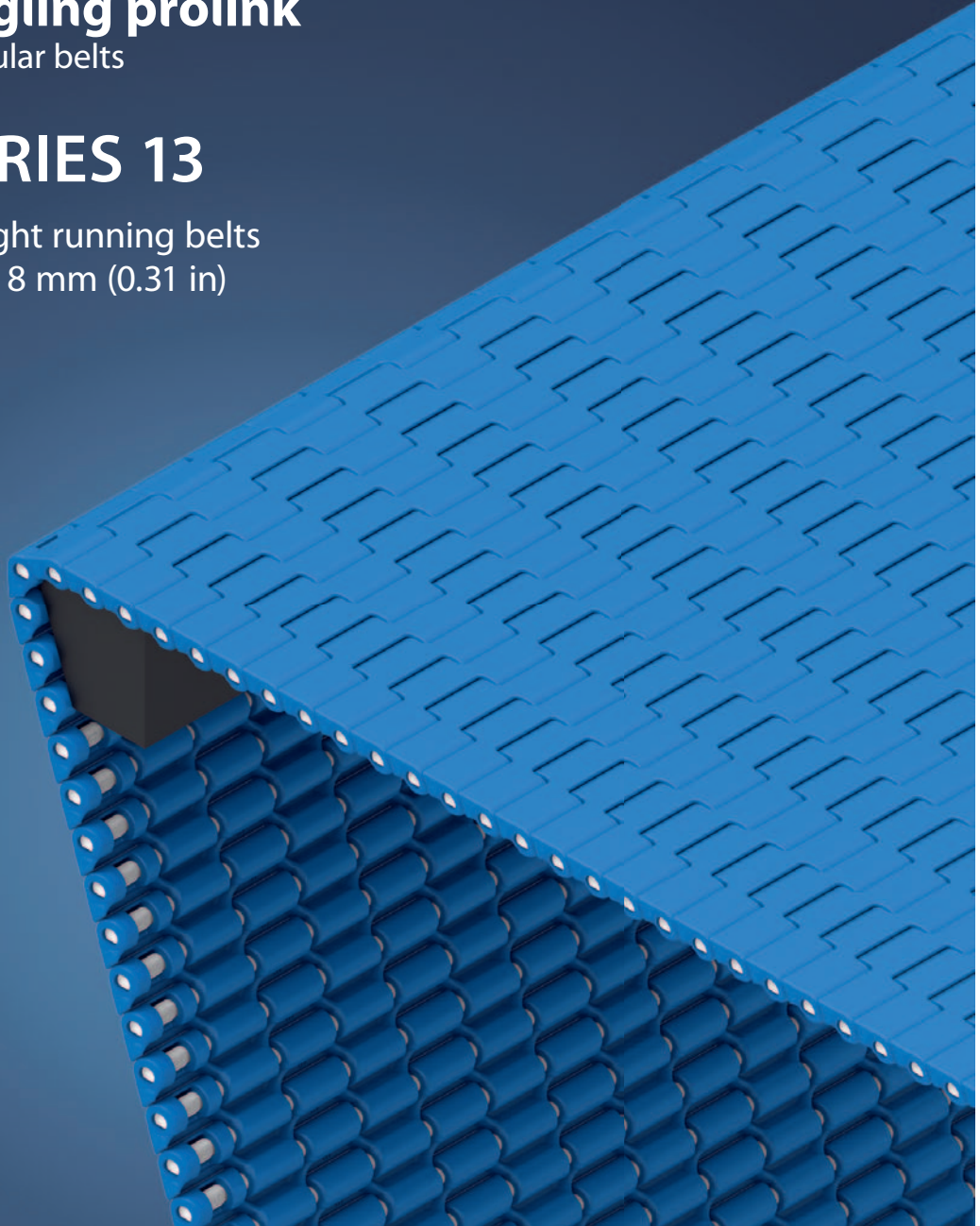
EXCERPT FROM PROLINK ENGINEERING MANUAL

08/20 (Ref-No. 888)

siegling prolink
modular belts

SERIES 13

Straight running belts
Pitch 8 mm (0.31 in)



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Ref. no. 888-2_1.2_S13

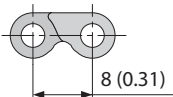
SERIES 13 | OVERVIEW

siegling prolink
modular belts

Straight running belts | Pitch 8 mm (0.31 in)

Belts for light-duty food and non-food nose bar applications

Side view scale 1:1



Design characteristics

- Micro pitch belt with small transfer gaps
- Designed to run over nosebars/knife edges or rollers with a radius down to 3 mm (0.12 in) allowing, precise transfer of even the smallest products
- Versatile for conveying, drying and cooling applications
- Optimal design of sprocket teeth, and belt underside provides superior sprocket engagement, safe belt tracking and favorable cleanability
- Belt and sprocket design ensures superior load transmission and belt pull capacity
- Headless pin making it very easy to install and remove the belt for maintenance

Basic data

Pitch	8 mm (0.31 in)
Belt width min.	102 mm (4 in)
Width increments	25.4 mm (1 in)
Hinge pins	3 mm (0.12 in) made of plastic (PLX, PA-HT)

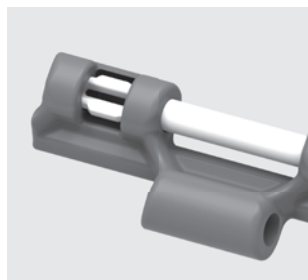
Sprockets

In different sizes with round or square sprocket bore

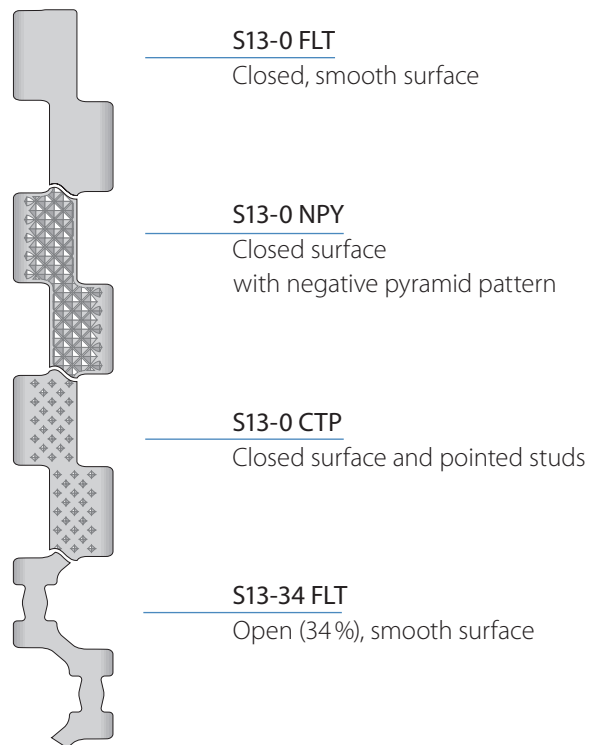


Detail hinge pin

Headless pin with unique shoulder design ensures trouble free installation, maintenance and a secure pin retention



Available surface pattern and opening area

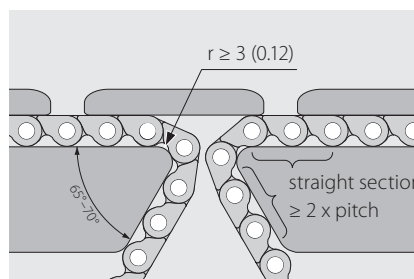


Certified

NSF-compliant from these certified Forbo plants:
Huntersville (USA), Maharashtra (India), Malacky (Slovakia),
NSW (Australia), Pinghu (China), Saint-Petersburg (Russia),
Shizuoka (Japan), Tlalnepantla (Mexico)

Detail nose bar

Narrow transfer gap ensures smooth transfer of small and delicate products



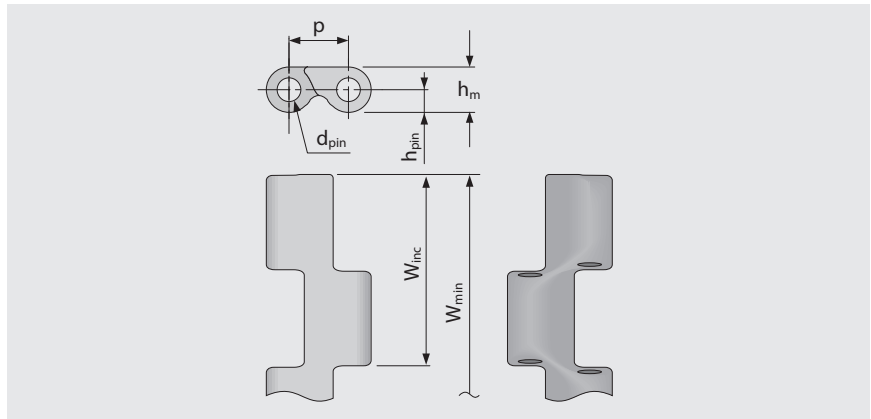
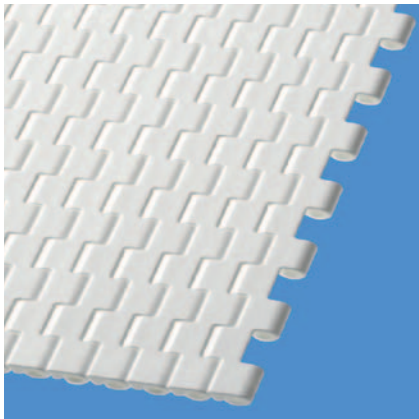
SERIES 13 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

S13-0 FLT | 0% Opening | Flat top

Closed, smooth surface | Flat top surface



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.0	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.0	4.02	1.0	±0.2	–	0.12	0.63	0.94	0.31

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	WT	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
POM	BL	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
PA*	BL	PLX	BL	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●

Mold to order belts												
PA*	LG	PLX	BL	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●
PA-HT	BL	PA-HT	UC	4	274	5.7	1.17	1.77	-30/155	-22/311	●	●
PXX-HC	BK	PLX	BL	2	137	5.2	1.07	0.89	5/100	41/212	–	–

Mold to width available in: 305 mm (12.0 in)

* 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.

■ BK (Black), ■ BL (Blue), ■ LG (Light gray), □ 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.

¹⁾ 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

²⁾ Complies with FDA 21 CFR

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

⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

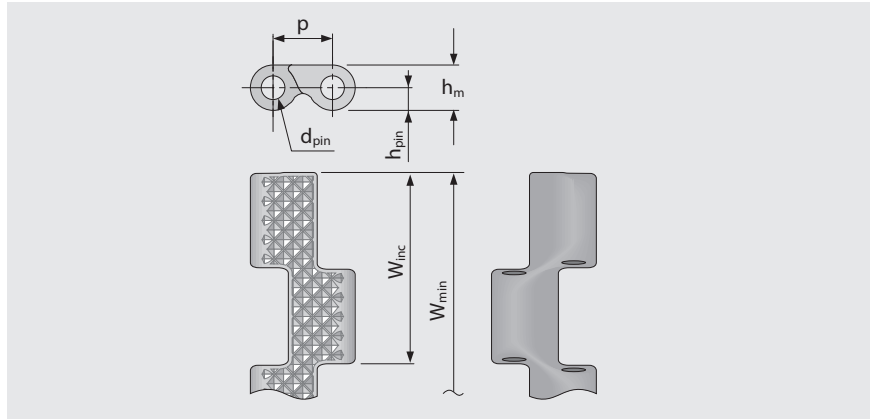
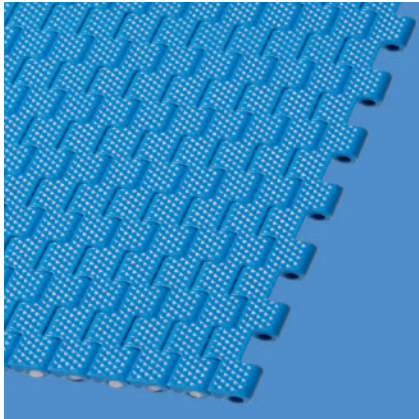
SERIES 13 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

S13-0 NPY | 0% Opening | Negative pyramid

Closed surface with negative pyramid pattern | Provides superb release characteristics when conveying wet or sticky products | 61 % contact area



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.0	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.0	4.02	1.0	±0.2	–	0.12	0.63	0.94	0.31

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	BL	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●

Mold to width available in: 305 mm (12.0 in)

■ 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.

¹⁾ 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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⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

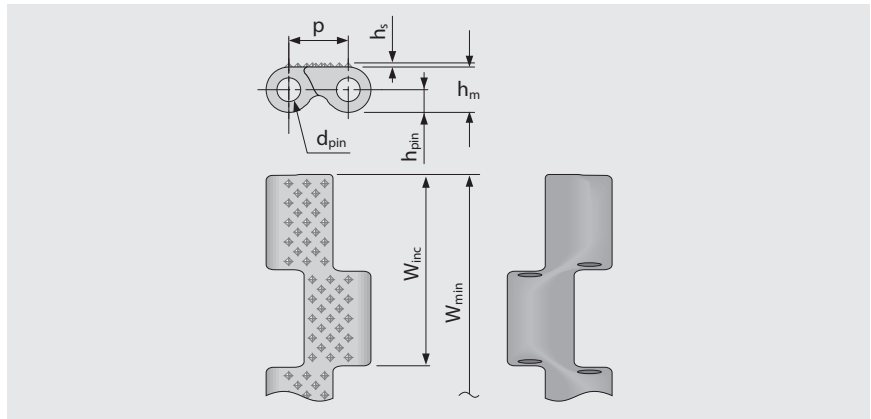
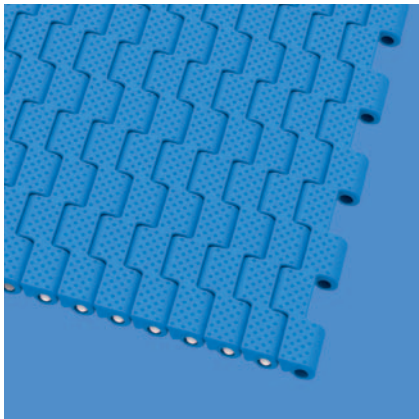
SERIES 13 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

S13-0 CTP | 0% Opening | Cone top (pointed studs)

Closed surface and pointed studs | Cone top surface pattern for superior grip



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.4	101.6	25.4	±0.2	–	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.02	4.0	1.0	±0.2	–	0.12	0.63	0.94	0.31

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	BL	PLX	BL	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
PA*	BL	PLX	BL	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●

Mold to width available in: 305 mm (12.0 in)

* 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)

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.

¹⁾ 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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⁴⁾ More materials and colors on request



MOVEMENT SYSTEMS

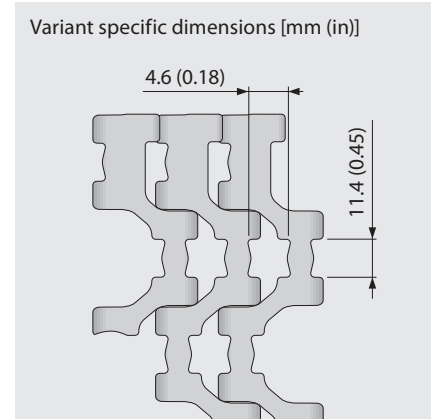
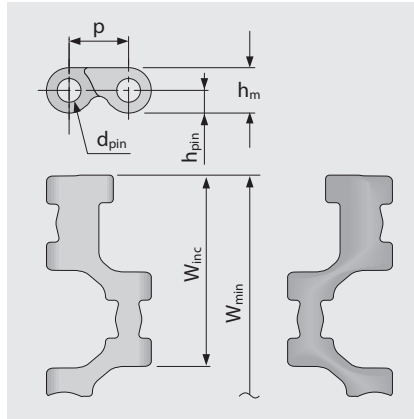
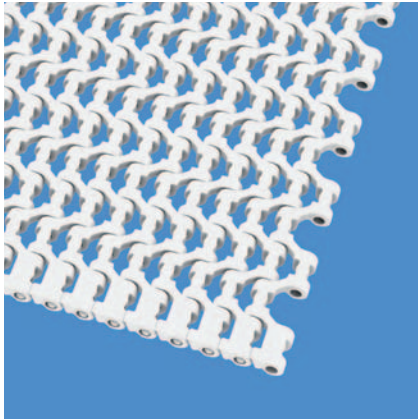
SERIES 13 | BELT TYPES

siegling prolink
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

S13-34 FLT | 34% Opening | Flat top

Open area (34%) for excellent air circulation and drainage | 47% contact area (Largest opening: 11.4 x 4.6 mm/0.45 x 0.18 in);
Smooth surface | Easy-to-clean



Belt dimensions

	p	d _{pin}	h _m	h _{pin}	h _s	W _{min}	W _{inc}	W _{tol}	Minimum flex radii ¹⁾				
	Pitch	Pin Ø	Thickness [mm]	Pin position [mm]	Height [mm]	Width min. [mm]	Width Increment [mm]	Width tolerance [%]	r1	r2	r3	r4	r5
mm	8.0	3.0	6.0	3.0	0.0	101.6	25.4	±0.2	-	3.0	16.0	24.0	8.0
inch	0.31	0.12	0.24	0.12	0.0	4.0	1.0	±0.2	-	0.12	0.63	0.94	0.31

Available standard materials⁴⁾

Belt		Pin		Nominal belt pull, straight		Weight		Width deviation	Temperature		Certificates	
Material	Color	Material	Color	[N/mm]	[lb/ft]	[kg/m ²]	[lb/ft ²]	[%]	[°C]	[°F]	FDA ²⁾	EU ³⁾
POM	WT	PLX	BL	4	274	4.3	0.88	0.23	-45/90	-49/194	●	●
POM	BL	PLX	BL	4	274	4.3	0.88	0.23	-45/90	-49/194	●	●
PA*	BL	PLX	BL	4	274	3.7	0.76	1.38	-40/120	-40/248	●	●

Mold to order belts

PA-HT	BL	PA-HT	UC	4	274	4.2	0.86	1.38	-30/155	-22/311	●	●
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Mold to width available in: 305 mm (12.0 in)

* 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.

¹⁾ 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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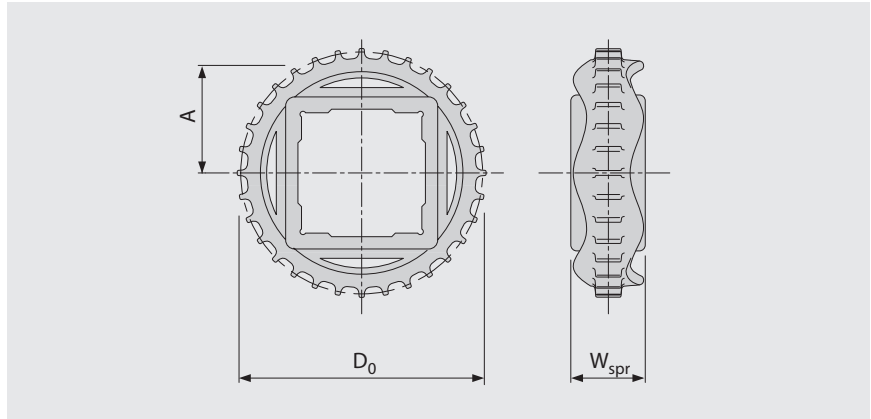
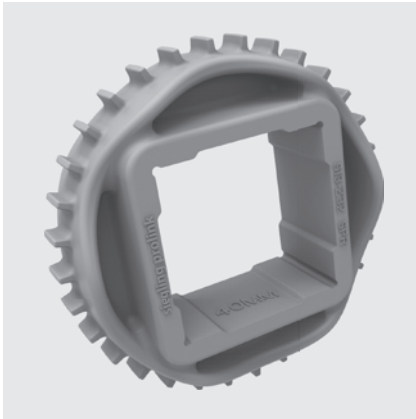
MOVEMENT SYSTEMS

SERIES 13 | SPROCKETS

siegling prolink
modular belts

Straight running belt | Pitch 8 mm (0.31 in)

S13 SPR | Sprockets



Main dimensions

Sprocket size (Number of teeth)		Z15	Z24	Z32	Z48
W _{spr}	mm	25.0	25.0	25.0	25.0
	inch	0.98	0.98	0.98	0.98
D ₀	mm	39.1	62.3	82.9	124.2
	inch	1.54	2.45	3.26	4.89
A _{max}	mm	16.6	28.2	38.5	59.1
	inch	0.65	1.11	1.52	2.33
A _{min}	mm	16.2	27.9	38.3	59.0
	inch	0.64	1.10	1.51	2.32

Shaft bores (● = Round, ■ = Square)

20	mm	●/■			
25	mm		●/■	●	
30	mm		■		
40	mm			■	■
0.75	inch	●			
1	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.

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

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

⑤ Style	
2.2	2.2 collapse factor
2.2 G	2.2 collapse factor, guided
A90	Angle 90° to conveying direction
BT	Bearing tab
DR	Double row sprocket
F1, F2, F3 ...	Collapse factor modules
G	Guided
GT	Guiding tabs
HD	Hold Down
Ixx	xx = indent in mm
RG	Reversed guided
SG	Side guard
SP	Split sprocket
ST	Strong

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

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