

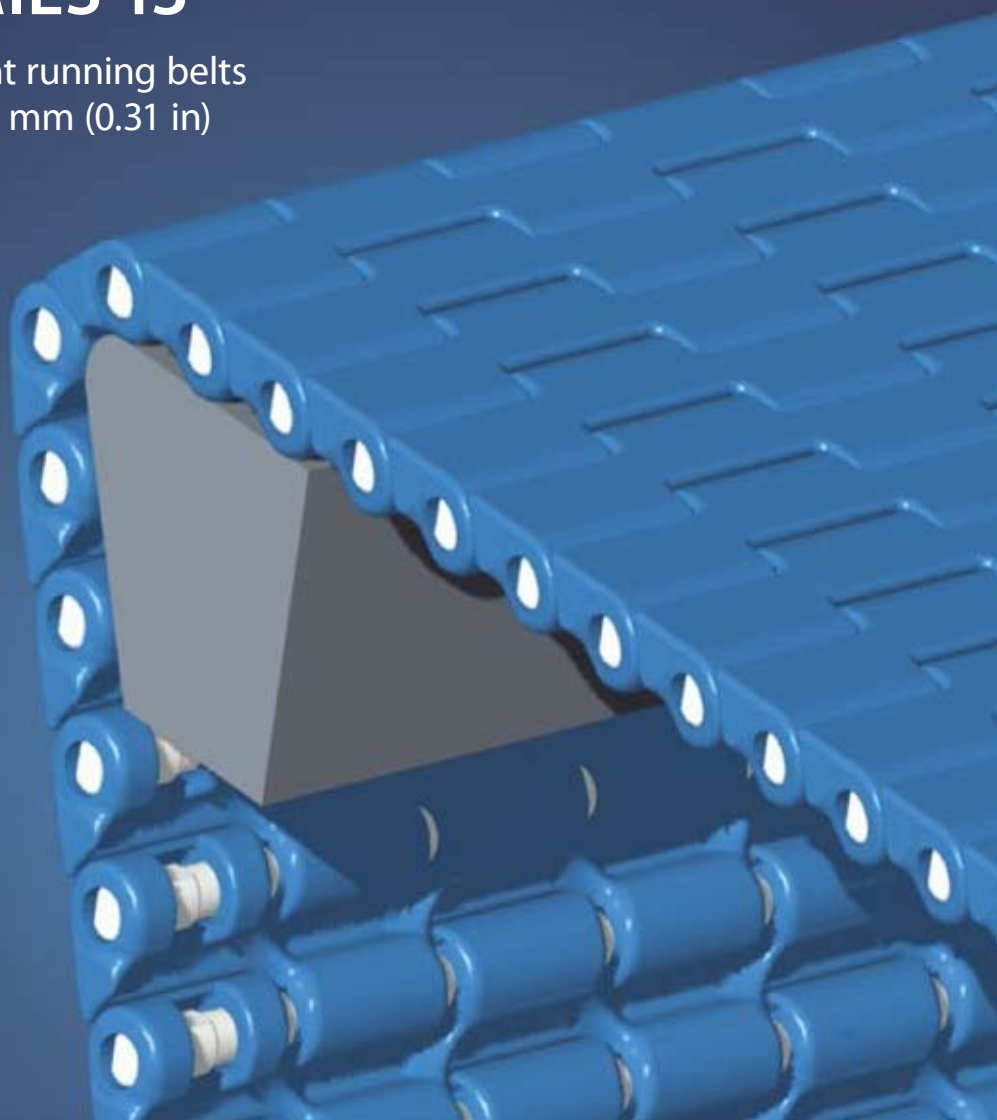
EXCERPT FROM PROLINK ENGINEERING MANUAL

12/17 (Ref-No. 888)

siegling prolink
modular belts

SERIES 13

Straight running belts
Pitch 8 mm (0.31 in)



Forbo Siegling GmbH

Lilienthalstraße 6/8, D-30179 Hannover
Phone +49 511 6704 0, Fax +49 511 6704 305
www.forbo-siegling.com, siegling@forbo.com

Ref. no. 888-2_1.2_S13

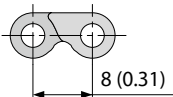
SERIES 13 | OVERVIEW

siebling prolink
modular belts

Straight running belts | Pitch 8 mm (0.31 in)

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

Side view scale 1:1



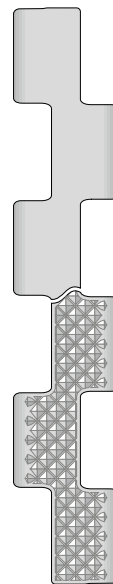
Design characteristics

- 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 (PBT)

Available surface pattern and opening area



S13-0 FLT

Closed, smooth surface

S13-0 NPY

Closed surface with inverted pyramid pattern



Certified

NSF-compliant from the
Huntersville plant (US)

Sprockets

In different sizes with round or square sprocket bore



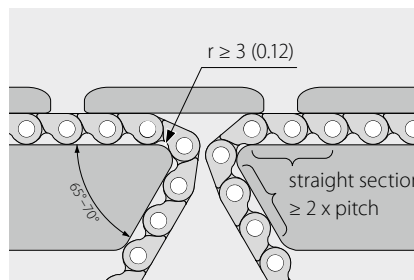
Detail hinge pin

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



Detail nose bar

Narrow transfer gap ensures smooth transfer of small and delicate products



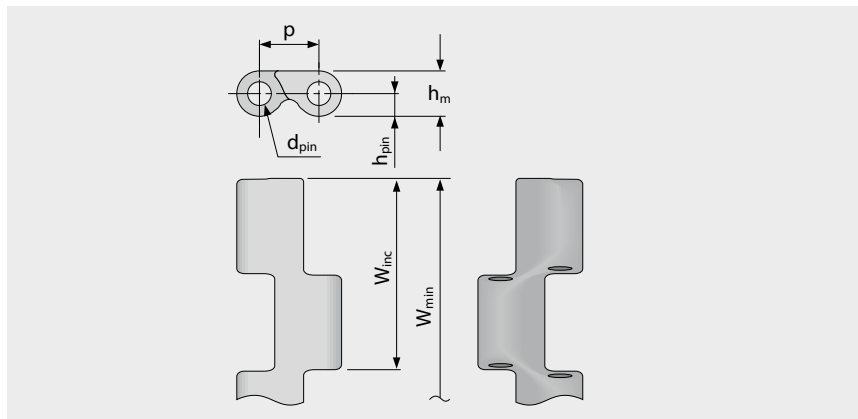
SERIES 13 | BELT TYPES

siebling prolink
modular belts

Straight running belts | 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	PBT	UC	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●
POM	BL	PBT	UC	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●

Made to order belts												
PA	LG	PBT	UC	4	274	5.1	1.04	1.38	-40/120	-40/248	●	●
PXX-HC	BK	PBT	UC	2	137	5.2	1.07	0.89	5/100	41/212	–	–

■ 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

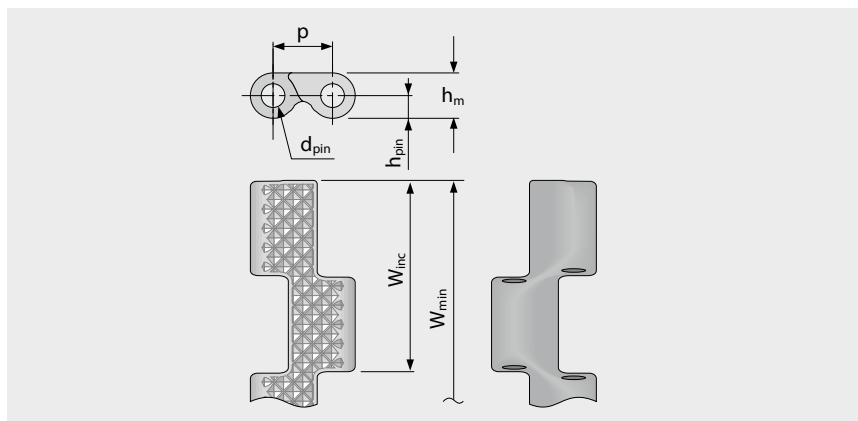
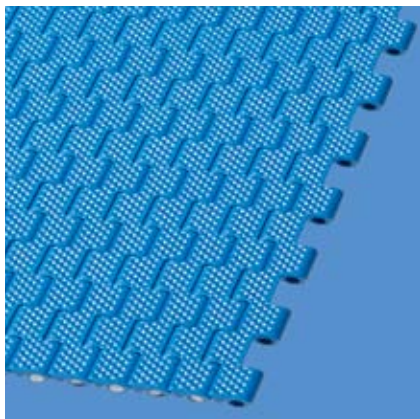
SERIES 13 | BELT TYPES

siebling prolink
modular belts

Straight running belts | Pitch 8 mm (0.31 in)

S13-0 NPY | 0% Opening | Inverted pyramid

Closed surface with inverted pyramid pattern | Provides superb release characteristics when conveying wet or sticky products



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	PBT	UC	4	274	5.9	1.21	0.23	-45/90	-49/194	●	●

■ 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

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



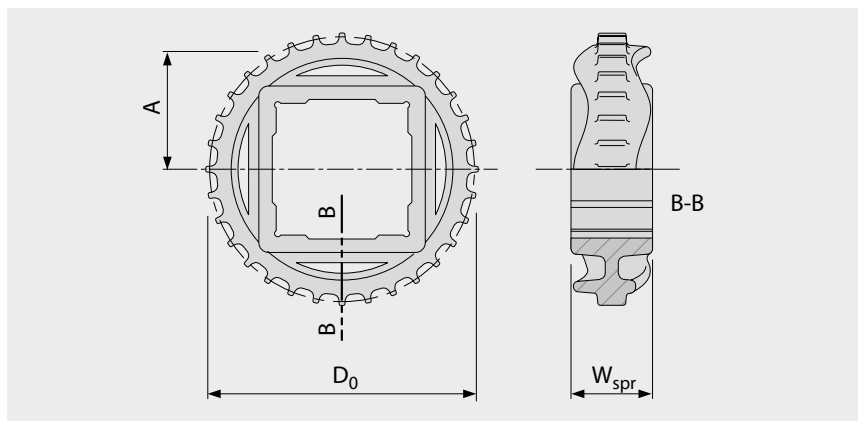
MOVEMENT SYSTEMS

SERIES 13 | SPROCKETS

siegling prolink
modular belts

Straight running belts | Pitch 8 mm (0.31 in)

S13 SPR | Sprockets



Main dimensions

Sprocket size (Number of teeth)		Z15	Z24	Z32	Z48
W _{spr}	mm	25	25	25	25
	inch	0.98	0.98	0.98	0.98
D ₀	mm	38	61	82	122
	inch	1.51	2.41	3.21	4.82
A _{max}	mm	16	28	38	58
	inch	0.64	1.09	1.49	2.29
A _{min}	mm	16	27	38	58
	inch	0.63	1.08	1.48	2.28

Shaft bores (● = Round, ■ = Square)

20	mm	●/■			
25	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.

LEGEND

① Series	
S1 ... S14	
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
FLT	Flat top (smooth)
FRT(X)	Friction top (Design X)
FRT-OG	FRT without High Grip insert
GRT	Grid top
LRB	Lateral rib
MOD	Modified module shape
NCL	No cling
NPY	Inverted pyramid
NSK	Non skid
NTP	Nub top (round studs)
RAT	Radius top
RTP	Roller top
RRB	Raised rib
SRS	Slip-resistant surface
④ Type	
A90	Angle 90° to conveying direction
CM	Center module
SML	Side module, left
SMR	Side module, right
SMU	Side module, universal/both sides
UM	Universal module
PMC	Profile module center
PMU	Profile module universal
PMU lxx	Profile module universal with indent xx = indent in mm
CLP	Clip
IDL	Idler
RI	High Grip insert
SG	Module with sideguard
PIN	Coupling rod
FPL	Finger plate
SLI	Slider
SPR	Sprocket
RTR	Retaining ring
TPL	Turning panel, left
TPR	Turning panel, right
CW	Clockwise
CCW	Counterclockwise
⑤ Style	
BT	Bearing tap
G	Guided
RG	Reversed guided
SG	Side guard
ST	Strong (S5)
DR	Double row sprocket
SP	Split sprocket
F1, F2, F3 ...	Collapse factor modules
HD	Hold Down
⑥ Material	
PA	Polyamide
PA-HT	Polyamide high temperature
PBT	Polybutylentere-phthalate
PE	Polyethylene
PE-MD	PE metal detectable
POM	Polyoxymethylene (Polyacetal)
POM-CR	POM cut resistant
POM-HC	POM highly conductive
POM-MD	POM metal detectable
PP	Polypropylene
PXX-HC	Self-extinguishing highly conductive material
POM-PE	POM side modules + PE center modules
POM-PP	POM side modules + PP center modules
R1	TPE 80 Shore A, PP
R2	EPDM 80 Shore A, vulcanized
R3	TPE 70 Shore A, PP
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	Themoplastic Copolyester
HA	Supports the HACCP concept
HW	High Wear resistant material
⑦ Color*	
AT	Anthracite
BL	Blue
BG	Beige
BK	Black
DB	Dark blue
GN	Green
LB	Light blue
LG	Light gray
OR	Orange
RE	Red
TR	Transparent
TQ	Turquoise
UC	Uncolored
WT	White
YL	Yellow
⑧ Height/Diameter/Bore size and style	
Height in mm Format: Hxxx Pin diameter in mm 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 Format: Lxxx Module width in mm 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.



MOVEMENT SYSTEMS