siegling prolink
modular belts

SERIES 15
Straight running belts
Pitch 12.7 mm (0.50 in)
Belt for light-duty food applications utilizing 12.7 mm (0.5 in) nose bars

**Side view scale 1:1**

**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

**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**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>12.7 mm (0.50 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt width min.</td>
<td>203.2 mm (8 in)</td>
</tr>
<tr>
<td>Width increments</td>
<td>25.4 mm (1 in)</td>
</tr>
<tr>
<td>Hinge pins</td>
<td>3.4 mm (0.13 in)</td>
</tr>
</tbody>
</table>

**Sprockets**

in different sizes with round or square sprocket bore

NSF-compliant from these certified Forbo plants:
- Huntersville (USA), Malacky (Slovakia), NSW (Australia), Tlalnepantla (Mexico), Saint-Petersburg (Russia), Shizuoka (Japan), Maharashtra (India)
Series 15 | Belt Types

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

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Pin Ø</th>
<th>Thickness [mm]</th>
<th>Pin position [mm]</th>
<th>Height [mm]</th>
<th>Width min. [mm]</th>
<th>Width Increment [mm]</th>
<th>Width tolerance [%]</th>
<th>r1</th>
<th>r2</th>
<th>r3</th>
<th>r4</th>
<th>r5</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>12.7</td>
<td>3.4</td>
<td>7.0</td>
<td>3.5</td>
<td>203.2</td>
<td>25.4</td>
<td>±0.20</td>
<td>6.4</td>
<td>25.4</td>
<td>38.1</td>
<td>12.7</td>
<td></td>
</tr>
<tr>
<td>inch</td>
<td>0.5</td>
<td>0.13</td>
<td>0.28</td>
<td>0.14</td>
<td>8.0</td>
<td>1.0</td>
<td>±0.20</td>
<td>0.25</td>
<td>1.0</td>
<td>1.5</td>
<td>0.5</td>
<td></td>
</tr>
</tbody>
</table>

Available standard materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm]</th>
<th>Weight [kg/m²]</th>
<th>Weight deviation [%]</th>
<th>Temperature [°C]</th>
<th>Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>POM</td>
<td>BL</td>
<td>PBT UC</td>
<td>5</td>
<td>343</td>
<td>4.3</td>
<td>0.88</td>
<td>-0.4</td>
<td>FDA</td>
</tr>
<tr>
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<td>WT</td>
<td>PBT UC</td>
<td>5</td>
<td>343</td>
<td>4.3</td>
<td>0.88</td>
<td>-0.4</td>
<td>FDA</td>
</tr>
<tr>
<td>PP</td>
<td>BL</td>
<td>PP UC</td>
<td>2.5</td>
<td>171</td>
<td>2.8</td>
<td>0.58</td>
<td>-1.0</td>
<td>EU</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP UC</td>
<td>2.5</td>
<td>171</td>
<td>2.8</td>
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</tr>
<tr>
<td>PA*</td>
<td>BL</td>
<td>PBT UC</td>
<td>4.5</td>
<td>308</td>
<td>3.7</td>
<td>0.75</td>
<td>-0.4</td>
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Mold to order belts

<table>
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<tr>
<th>Material</th>
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<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm]</th>
<th>Weight [kg/m²]</th>
<th>Weight deviation [%]</th>
<th>Temperature [°C]</th>
<th>Certificates</th>
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<tbody>
<tr>
<td>PP</td>
<td>BL</td>
<td>PBT UC</td>
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<td>192</td>
<td>2.8</td>
<td>0.58</td>
<td>-1.0</td>
<td>FDA</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PBT UC</td>
<td>2.8</td>
<td>192</td>
<td>2.8</td>
<td>0.58</td>
<td>-1.0</td>
<td>FDA</td>
</tr>
</tbody>
</table>

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

**Available standard materials**

<table>
<thead>
<tr>
<th>Material</th>
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<th>Pin Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>POM</td>
<td>BL</td>
<td>PB1</td>
<td>UC</td>
</tr>
<tr>
<td>POM</td>
<td>WT</td>
<td>PBT</td>
<td>UC</td>
</tr>
<tr>
<td>PP*</td>
<td>BL</td>
<td>PP</td>
<td>W1</td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
</tr>
<tr>
<td>PA*</td>
<td>BL</td>
<td>PB1</td>
<td>UC</td>
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</table>

**Nominal belt pull, straight**

<table>
<thead>
<tr>
<th>Belt</th>
<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm] [lb/ft]</th>
<th>Weight [kg/m²] [lb/ft²]</th>
<th>Width deviation [%]</th>
<th>Temperature [°C] [°F]</th>
<th>Certificates</th>
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</thead>
<tbody>
<tr>
<td>POM</td>
<td>BL</td>
<td>PB1</td>
<td>UC</td>
<td>343 [72.9] 1.07 [-0.4 -45/90 -49/194]</td>
<td>5.2 [2.22] 1.07 [-0.4 -45/90 -49/194]</td>
<td>-1.0 [3/100] 41/212</td>
<td>[●] [●] [●] [●]</td>
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</tr>
<tr>
<td>POM</td>
<td>WT</td>
<td>PBT</td>
<td>UC</td>
<td>343 [72.9] 1.07 [-0.4 -45/90 -49/194]</td>
<td>5.2 [2.22] 1.07 [-0.4 -45/90 -49/194]</td>
<td>-1.0 [3/100] 41/212</td>
<td>[●] [●] [●] [●]</td>
<td></td>
</tr>
<tr>
<td>PP</td>
<td>BL</td>
<td>PP</td>
<td>W1</td>
<td>171 [32.4] 0.7 [-1.0 5/100 41/212 ]</td>
<td>4.5 [1.74] 0.7 [-1.0 5/100 41/212]</td>
<td>-1.0 [5/100] 41/212</td>
<td>[●] [●] [●] [●]</td>
<td></td>
</tr>
<tr>
<td>PP</td>
<td>WT</td>
<td>PP</td>
<td>WT</td>
<td>171 [32.4] 0.7 [-1.0 5/100 41/212 ]</td>
<td>4.5 [1.74] 0.7 [-1.0 5/100 41/212]</td>
<td>-1.0 [5/100] 41/212</td>
<td>[●] [●] [●] [●]</td>
<td></td>
</tr>
<tr>
<td>PA*</td>
<td>BL</td>
<td>PB1</td>
<td>UC</td>
<td>308 [61.1] 0.91 [0.4 -40/120 -40/248]</td>
<td>4.5 [1.74] 0.91 [0.4 -40/120 -40/248]</td>
<td>-1.0 [5/100] 41/212</td>
<td>[●] [●] [●] [●]</td>
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</table>

**Modular belts**

<table>
<thead>
<tr>
<th>Belt</th>
<th>Color</th>
<th>Pin Material</th>
<th>Color</th>
<th>Nominal belt pull, straight [N/mm] [lb/ft]</th>
<th>Weight [kg/m²] [lb/ft²]</th>
<th>Width deviation [%]</th>
<th>Temperature [°C] [°F]</th>
<th>Certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>BL</td>
<td>PB1</td>
<td>UC</td>
<td>192 [36.6] 0.7 [-1.0 5/100 41/212 ]</td>
<td>4.4 [1.96] 0.7 [-1.0 5/100 41/212]</td>
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<td>[●] [●] [●] [●]</td>
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<tr>
<td>PP</td>
<td>WT</td>
<td>PBT</td>
<td>UC</td>
<td>192 [36.6] 0.7 [-1.0 5/100 41/212 ]</td>
<td>4.4 [1.96] 0.7 [-1.0 5/100 41/212]</td>
<td>-1.0 [5/100] 41/212</td>
<td>[●] [●] [●] [●]</td>
<td></td>
</tr>
</tbody>
</table>

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**Available standard materials**

- BL (Blue), UC (Uncolored), W1 (White)

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- 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
- Complies with FDA 21 CFR
- Complies with (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds
- More materials and colors on request
SIEGLING PROLINK
MODULAR BELTS

SERIES 15 | SPROCKETS
Straight running belt | Pitch 12.7 mm (0.5 in)

S15 SPR | Sprockets

Main dimensions

<table>
<thead>
<tr>
<th>Sprocket size (Number of teeth)</th>
<th>Z12</th>
<th>Z14</th>
<th>Z17</th>
<th>Z19</th>
<th>Z24</th>
<th>Z36</th>
</tr>
</thead>
<tbody>
<tr>
<td>( W_{spr} ) (mm)</td>
<td>20.0</td>
<td>20.0</td>
<td>20.0</td>
<td>20.0</td>
<td>20.0</td>
<td>20.0</td>
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<tr>
<td>(inch)</td>
<td>0.79</td>
<td>0.79</td>
<td>0.79</td>
<td>0.79</td>
<td>0.79</td>
<td>0.79</td>
</tr>
<tr>
<td>( D_0 ) (mm)</td>
<td>50.6</td>
<td>58.9</td>
<td>71.3</td>
<td>79.6</td>
<td>100.4</td>
<td>150.3</td>
</tr>
<tr>
<td>(inch)</td>
<td>1.99</td>
<td>2.32</td>
<td>2.81</td>
<td>3.13</td>
<td>3.95</td>
<td>5.92</td>
</tr>
<tr>
<td>( A_{max} ) (mm)</td>
<td>21.8</td>
<td>25.9</td>
<td>32.1</td>
<td>36.3</td>
<td>46.7</td>
<td>71.6</td>
</tr>
<tr>
<td>(inch)</td>
<td>0.86</td>
<td>1.02</td>
<td>1.26</td>
<td>1.43</td>
<td>1.84</td>
<td>2.82</td>
</tr>
<tr>
<td>( A_{min} ) (mm)</td>
<td>21.0</td>
<td>25.3</td>
<td>31.6</td>
<td>35.8</td>
<td>46.3</td>
<td>71.4</td>
</tr>
<tr>
<td>(inch)</td>
<td>0.83</td>
<td>1.00</td>
<td>1.24</td>
<td>1.41</td>
<td>1.82</td>
<td>2.81</td>
</tr>
</tbody>
</table>

Shaft bores (● = Round, ■ = Square)

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>40</th>
<th>0.75</th>
<th>1</th>
<th>1.25</th>
<th>1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 mm</td>
<td>□</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>25 mm</td>
<td>●□</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●■</td>
<td>●</td>
<td>●■</td>
<td>●</td>
</tr>
<tr>
<td>30 mm</td>
<td>●□</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●■</td>
<td>●</td>
<td>●■</td>
<td>●</td>
</tr>
<tr>
<td>40 mm</td>
<td>•□</td>
<td>□</td>
<td>■</td>
<td>□</td>
<td>□■</td>
<td>□</td>
<td>□■</td>
<td>□</td>
</tr>
<tr>
<td>0.75 inch</td>
<td>●□</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●■</td>
<td>●■</td>
<td>●</td>
</tr>
<tr>
<td>1 inch</td>
<td>●□</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
<td>●</td>
<td>●■</td>
<td>●■</td>
</tr>
<tr>
<td>1.25 inch</td>
<td>●□</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
<td>●■</td>
</tr>
<tr>
<td>1.5 inch</td>
<td>□■</td>
<td>□■</td>
<td>□■</td>
<td>□■</td>
<td>□■</td>
<td>□■</td>
<td>□■</td>
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</tr>
</tbody>
</table>

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 … S15

2. Open area/Sprocket size
Percentage open area
Format: xx
Eg. 20 = 20%
For sprockets: number of teeth
Format: “Z”xx
Eg. 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
NTP Nub top (round studs)
RAT Radius top
RRB Raised rib
RSA Reduced surface area
RTP Roller top
SRS Slip-resistant surface

4. Type
A90 Angle 90° to conveying direction
BPU Bucket profile
CCW Counter clockwise
CLP Clip
CM Center module
CW Clockwise
FPL Finger plate
IDR Idler
PIN Coupling rod
PMC Profile module center
PMU Profile module universal
PMx Ixx Profile module universal with indent xx = indent in mm
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

5. Material
PA Polyamide
PA-HT Polyamide high temperature
PBT Polybutylene- phthalate
PE Polyethylene
PE-MD PE metal detectable
POM Polyoxymethylene (Polycetal)
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 EPOM 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
-TO Supports the HACCP concept
-HW High Wear resistant material

6. Style
BT Bearing tab
DR Double row sprocket
G Guided
GT Guiding tabs
HD Hold Down
RG Reversed guided
SG Side guard
SP Split sprocket
ST Strong

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.