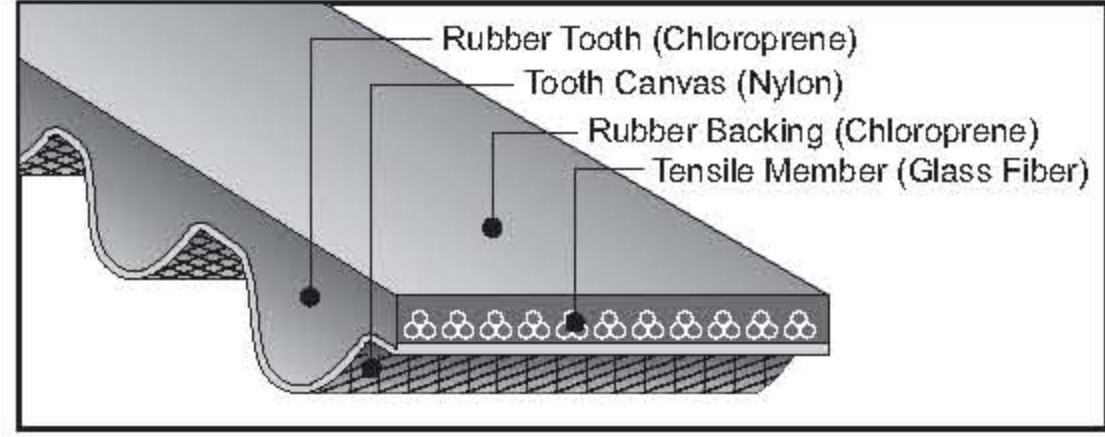
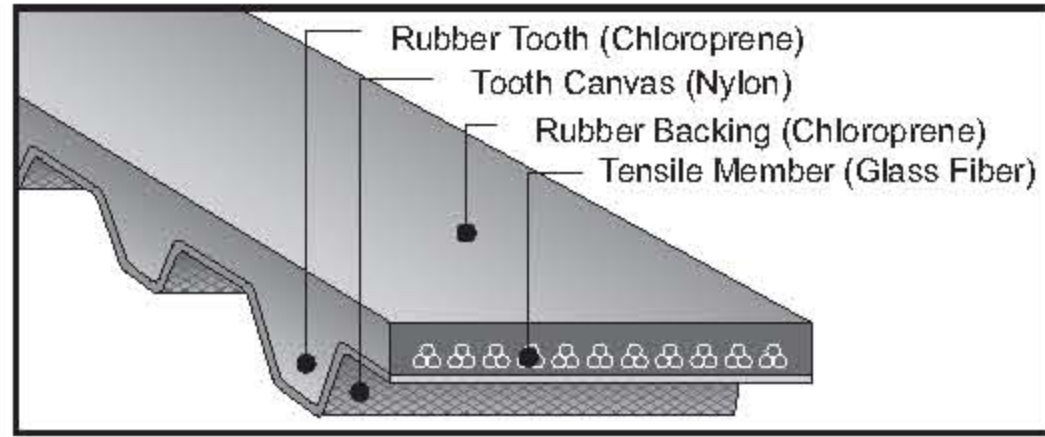
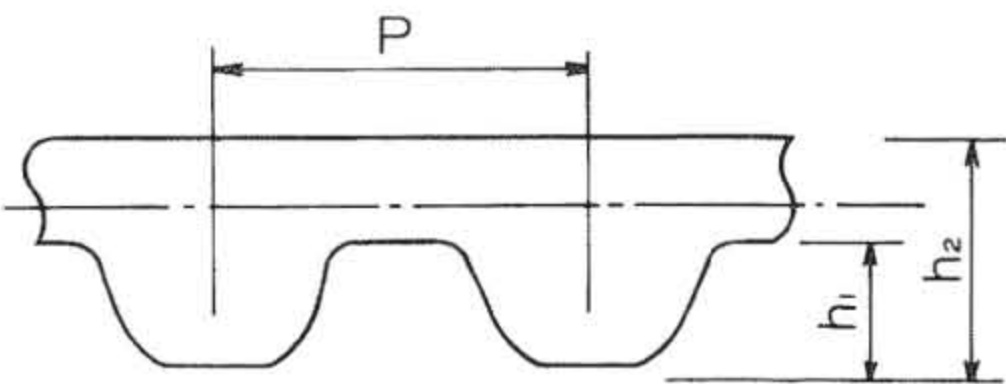
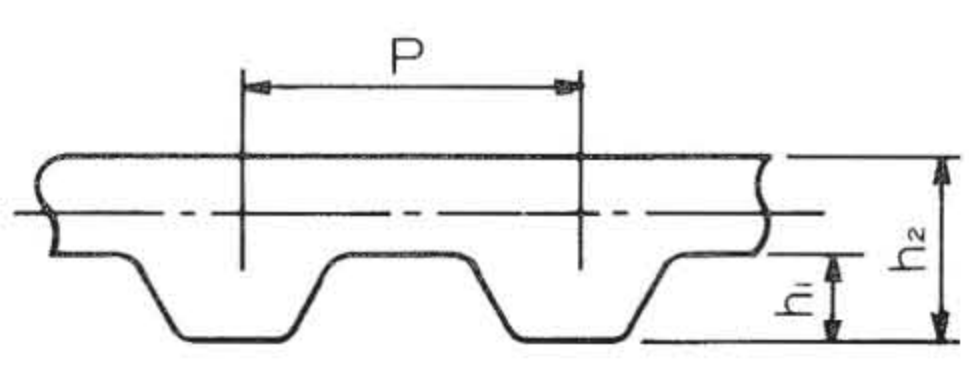


(IV) Long Synchronous Belt (Rubber, Polyurethane)

1. An Introduction to Long Synchronous Belts (Rubber)

Long synchronous belts can realize long-distance synchronous transmission and conveyance. Compared to chains, they are lighter, quieter, and require no oil.

These belts can replace chains, flat belts, and conveyor belts to promote full automation in factories.

Belt Types	STS Belt	Synchronous Belt																												
Structure																														
Tooth Dimensions	 <p>Unit: mm</p> <table border="1"> <thead> <tr> <th></th> <th>P</th> <th>h₁</th> <th>h₂</th> </tr> </thead> <tbody> <tr> <td>S2M</td> <td>2.0</td> <td>0.76</td> <td>1.31</td> </tr> <tr> <td>S3M</td> <td>3.0</td> <td>1.14</td> <td>2.10</td> </tr> <tr> <td>S5M</td> <td>5.0</td> <td>1.91</td> <td>3.61</td> </tr> </tbody> </table>		P	h ₁	h ₂	S2M	2.0	0.76	1.31	S3M	3.0	1.14	2.10	S5M	5.0	1.91	3.61	 <p>Unit: mm</p> <table border="1"> <thead> <tr> <th></th> <th>P</th> <th>h₁</th> <th>h₂</th> </tr> </thead> <tbody> <tr> <td>MXL</td> <td>2.032</td> <td>0.51</td> <td>1.10</td> </tr> <tr> <td>XL</td> <td>5.080</td> <td>1.25</td> <td>2.25</td> </tr> </tbody> </table>		P	h ₁	h ₂	MXL	2.032	0.51	1.10	XL	5.080	1.25	2.25
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Types, Special Features, Standard Dimensions, and Labeling

Types	Open end (strip type)																						
Features	● Able to realize back-and-forth movements across long spans.																						
Standard Dimensions	Model	MXL					XL					S2M				S3M		S5M					
	Nominal Width	4.8	6.4	7.9	9.5	12.7	025	031	037	050	075	50	60	70	80	50	60	80	100	150	200	250	
	Width (mm)	4.8	6.4	7.9	9.5	12.7	6.4	7.9	9.5	12.7	19.0	5.0	6.0	7.0	8.0	5.0	6.4	8.0	10.0	15.0	20.0	25.0	
	Belt length (mm)	42	31	25	41	30	53	43	35	26	33	40	35	30	50	50	40	40	40	40	40	30	24
Labels	<p>MXL 6.4 × 31m</p> <p>— Belt length (m)</p> <p>— Nominal width (6.4mm)</p> <p>— Belt type (MXL type)</p>					<p>XL 025 × 53m</p> <p>— Belt length (m)</p> <p>— Nominal width (0.25 inches: 6.4mm)</p> <p>— Belt type (XL type)</p>					<p>250 S5M × 24m</p> <p>— Belt length (m)</p> <p>— Belt type (S5M type)</p> <p>— Nominal width (25mm)</p>												

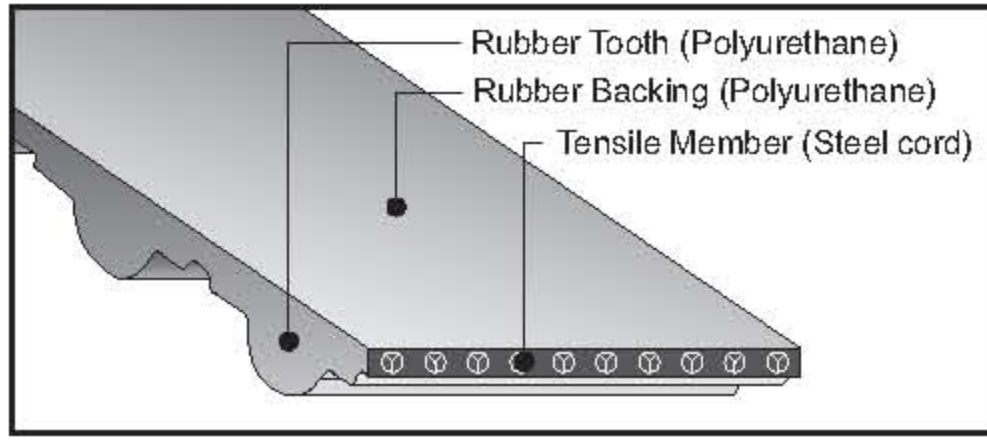
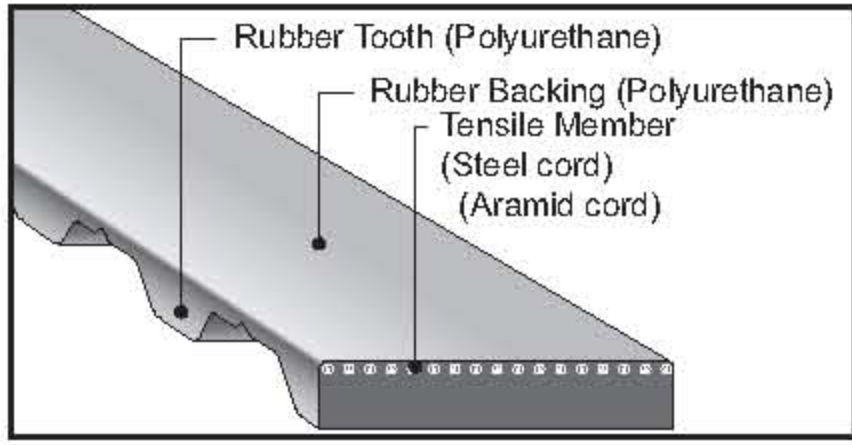
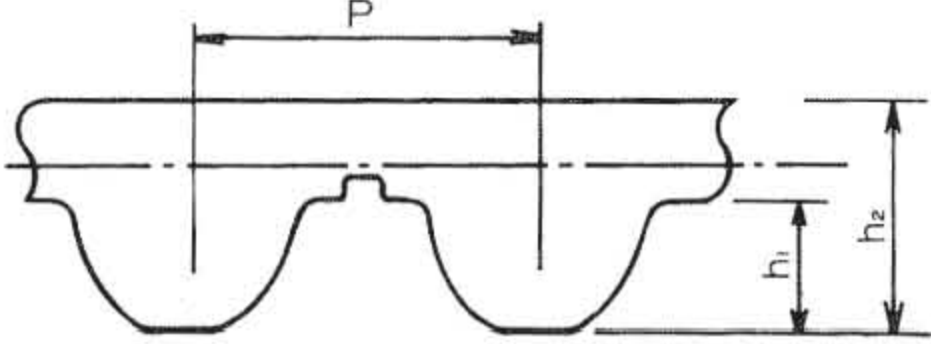
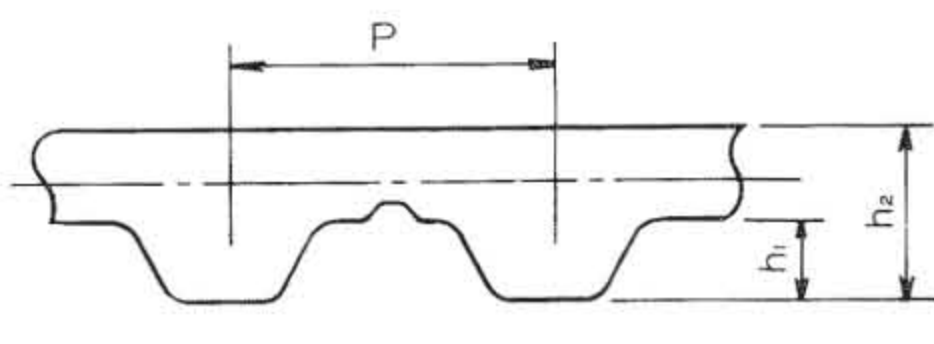
2. An Introduction to Long Synchronous (polyurethane) Belts

This belt, made of polyurethane, is able to perform synchronous transmission and conveyance across long spans. Thanks to its clean transmission and conveyance feature, it is suitable for use

in food processing machinery.

It is possible to mold virtually any special configuration on the backing of belts, to enhance their conveyance function.

Teeth Structure and Dimensions

Belt Types	STS Belt	Synchronous Belt																								
Structure																										
Tooth Dimensions	 <p style="text-align: right;">Unit: mm</p> <table border="1"> <thead> <tr> <th></th> <th>P</th> <th>h₁</th> <th>h₂</th> </tr> </thead> <tbody> <tr> <td>S2M</td> <td>2.00</td> <td>0.76</td> <td>1.40</td> </tr> <tr> <td>S3M</td> <td>3.00</td> <td>1.14</td> <td>2.00</td> </tr> </tbody> </table>		P	h ₁	h ₂	S2M	2.00	0.76	1.40	S3M	3.00	1.14	2.00	 <p style="text-align: right;">Unit: mm</p> <table border="1"> <thead> <tr> <th></th> <th>P</th> <th>h₁</th> <th>h₂</th> </tr> </thead> <tbody> <tr> <td>XL</td> <td>5.080</td> <td>1.25</td> <td>2.25</td> </tr> <tr> <td>T5</td> <td>5.00</td> <td>1.20</td> <td>2.20</td> </tr> </tbody> </table>		P	h ₁	h ₂	XL	5.080	1.25	2.25	T5	5.00	1.20	2.20
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T5	5.00	1.20	2.20																							

Types, Special Features, Standard Dimensions, and Labeling

Types	Open end (strip type)	Endless (1 joint)																																
Features	<ul style="list-style-type: none"> ● Precise back-and-forth movement available. 	<ul style="list-style-type: none"> ● Able to realize synchronous conveyance and light transmission across long distances. ● Able to mold virtually any special configuration on the backing of the belts, permitting use as conveyor belts. (Please refer to the table of standard profiles on page S-86). 																																
Standard Dimensions	<table border="1"> <thead> <tr> <th>Type</th> <th>Standard Nominal Width</th> <th>Maximum Width (mm)</th> <th>Maximum Length (m)</th> </tr> </thead> <tbody> <tr> <td>S2M</td> <td>50,100,150,200 250,300,350,400</td> <td>40</td> <td>60</td> </tr> <tr> <td>S3M</td> <td>60,120,180,240 300,360,420,480</td> <td>48</td> <td>60</td> </tr> <tr> <td>XL</td> <td>025,031,037,050 075,100,150,200</td> <td>50.8</td> <td>50</td> </tr> <tr> <td>T5</td> <td>10,15,20 25,30,40,50</td> <td>50</td> <td>50</td> </tr> </tbody> </table>	Type	Standard Nominal Width	Maximum Width (mm)	Maximum Length (m)	S2M	50,100,150,200 250,300,350,400	40	60	S3M	60,120,180,240 300,360,420,480	48	60	XL	025,031,037,050 075,100,150,200	50.8	50	T5	10,15,20 25,30,40,50	50	50	<table border="1"> <thead> <tr> <th>Type</th> <th>Standard Nominal Width</th> <th>Maximum Width (mm)</th> <th>Minimum joint length (m)</th> </tr> </thead> <tbody> <tr> <td>XL</td> <td>025,031,037,050 075,100,150,200</td> <td>50.8</td> <td>0.5</td> </tr> <tr> <td>T5</td> <td>10,15,20 25,30,40,50</td> <td>50</td> <td>0.5</td> </tr> </tbody> </table>	Type	Standard Nominal Width	Maximum Width (mm)	Minimum joint length (m)	XL	025,031,037,050 075,100,150,200	50.8	0.5	T5	10,15,20 25,30,40,50	50	0.5
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Labels	<p>250 S2M-1000 L W</p> <ul style="list-style-type: none"> 250: Belt's nominal width (25mm) S2M: Belt Type (S2M type) 1000: Number of teeth L: Rubber materials (polyethylene) W: Tensile members' materials (Steel cord) 	<p>150 XL-1000 SK-J</p> <ul style="list-style-type: none"> 150: Belt Width (1.5 inches × 100) XL: Belt Type (XL type) 1000: Number of teeth (1000 teeth) S: Rubber materials' symbol K: Tensile members' materials' symbol J: Joint <p>25 T5 890 SW-J</p> <ul style="list-style-type: none"> 25: Belt Width (25mm) T5: Belt Type (T5 type) 890: Number of teeth (890 teeth) S: Rubber materials' symbol W: Tensile members' materials' symbol J: Joint 																																
	<p>Rubber Materials' Codes</p> <ul style="list-style-type: none"> S ...Semi-transparent (Standard) W ...Cream colored (Standard) M ...Cream colored (Heat and humidity-resistant) L ...Cream colored (Low friction) 	<p>Tensile Member Materials' Codes</p> <ul style="list-style-type: none"> W ...Steel cord K ...Aramid cord <p>Note) Please inquire with our company, as some sets are impractical.</p>																																