PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

L Synchronous Belt — Specification & Complete Size Chart

9.525 mm (0.375 in) Pitch Inch-Pitch Trapezoidal Timing Belt · Conforms to ISO 5296 · Shusheng Brand

Shusheng

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L Synchronous Belt — Specification, Materials & Complete Size Chart

1. L Synchronous Belt Overview

An inch-pitch trapezoidal tooth timing belt for light-to-medium duty drives in industrial, commercial and agricultural machinery.

The L synchronous belt (also written L timing belt) is an **inch-pitch trapezoidal tooth** belt with a **9.525 mm (0.375 in) pitch**. It transmits power through the meshing of belt teeth with pulley grooves rather than by friction, so an L drive runs with no slip, no speed drift and no lubrication. The L profile is the mid-duty member of the classic inch-pitch trapezoidal family: it sits **above XL (5.080 mm)** for heavier loads and **below H (12.700 mm)** for compact installations, which makes it a practical choice for light-to-medium industrial drives.

An L belt delivers up to **98% transmission efficiency**, needs no lubrication, runs quietly and supports multi-shaft drives. Every belt conforms to **ISO 5296** and is dimensionally interchangeable with equivalent-profile L belts from other mainstream manufacturers. This document covers the belt code (section 2), the technical specification (section 3), the size list from **67L** to **2700L** (section 4), materials and contact details.



Figure 1: An L synchronous belt — 9.525 mm (0.375 in) pitch, 1.91 mm tooth height, 3.6 mm belt thickness — with the pitch length code moulded on the back.

2. Belt Designation & Code Meaning

How the profile, the dimensions and the code on the belt are read.

2.1 Profile geometry

The L profile is fixed by four numbers: a **tooth pitch of 9.525 mm (0.375 in)**, a **tooth angle of 40 degrees**, a **tooth height of 1.91 mm** and a **belt total thickness of about 3.6 mm**. The trapezoidal tooth form keeps timing accurate under reversing and shock loads.

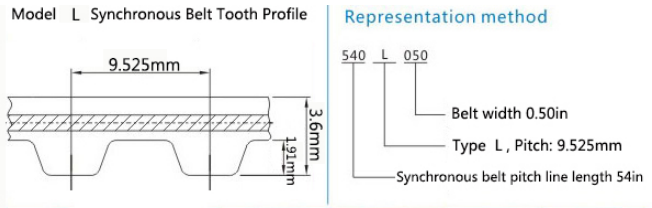


Figure 2: L tooth profile and representation method — a 9.525 mm (0.375 in) tooth pitch, a 1.91 mm tooth height and a 3.6 mm belt total thickness, with the code read as pitch line length – type L – belt width.

2.2 How the code reads

An L belt is designated by its **pitch line length code** in tenths of an inch, followed by the profile letter **L**; the width code is added only on invoices and order forms. The belt itself is printed with the length code only, for example **300L**, which is also written **L300** or **L-300** — all three mean the same length: a **30.0 in (762.0 mm) pitch line length and 80 teeth**.

The full order code with a width is written **300 L 100**, **L300-100** or **300-L-100**, meaning an L belt of 30.0 in (762.0 mm) pitch length and **25.4 mm (1.00 in) width**. The number is the **pitch line length in tenths of an inch** measured at the cord line, not the outside or inside length. Pitch line length in millimetres equals the code value multiplied by 2.54 mm, and the tooth count is the pitch length divided by the 9.525 mm pitch — **67L** is 6.7 in / 170.2 mm / 18 teeth, **300L** is 30.0 in / 762.0 mm / 80 teeth and **2700L** is 270.0 in / 6858.0 mm / 720 teeth.

2.3 Belt widths

Table 1 L standard belt widths (non-standard widths and custom lengths on request)

Width Code	Width (in / mm)	Typical Drive Duty
050	0.50 in / 12.7 mm	Light office equipment, small appliances, small printers
075	0.75 in / 19 mm	Sewing machines, vending machines, small conveyors
100	1.00 in / 25.4 mm	Packaging machinery, food processing, medium-duty industrial drives
150	1.50 in / 38 mm	Heavy conveyors, agricultural equipment, HVAC drives

2.4 Marking & interchangeability

L shares the inch-pitch trapezoidal family with XL (5.080 mm) and H (12.700 mm), but the pitch, tooth geometry and pulleys differ, so the types are **not interchangeable**. Each belt carries its code on the back, so it can be re-ordered without measuring the drive.

3. Technical Specifications

All sizes share the same profile, materials and performance; only the pitch length and tooth count change.

Table 2 L Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Inch-pitch synchronous belt, trapezoidal tooth (L series)
Tooth Pitch	9.525 mm (0.375 in)
Tooth Angle	40 degrees
Tooth Height	1.91 mm (0.075 in)
Belt Total Thickness	~3.6 mm (0.143 in)
Standard Widths	050 / 075 / 100 / 150 (0.50 / 0.75 / 1.00 / 1.50 in, i.e. 12.7 / 19 / 25.4 / 38 mm); non-standard widths on request
Standard	Conforms to ISO 5296 (synchronous belt drives, inch-pitch trapezoidal tooth profile)

Table 3 L Synchronous Belt — Performance & Ordering Data

Property	Specification
Tensile Member	High-strength glass fiber cord with very low elongation
Body Compound	Premium synthetic chloroprene rubber (CR), blended with rubber additives
Tooth Facing	Specially treated high-elasticity Nylon 66 fabric
Transmission Efficiency	Up to 98%
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	67L to 2700L — 6.7 in to 270.0 in (170.2 mm to 6858.0 mm, 185 standard models)
Minimum Order Quantity	100 pcs per size (standard); custom sizes on request
Indicative Price Range	US$1.08 – US$130.30 per piece (varies by length and width)
Lead Time	15–20 days

Every code in the range maps directly to its dimensions: the **number in the code is the pitch line length in tenths of an inch**, the **millimetre length is that value multiplied by 2.54**, and the **tooth count is the pitch length divided by the 9.525 mm pitch**. So 67L is 6.7 in / 170.2 mm / 18 teeth, 300L is 30.0 in / 762.0 mm / 80 teeth, and 2700L is 270.0 in / 6858.0 mm / 720 teeth.

4. Complete L Size Chart

The table below lists every stocked L belt by its length code with pitch line length and tooth count. The number in an L belt code is the pitch line length in tenths of an inch — so **300L** is a belt with a **30.0 in (762.0 mm) pitch line length and 80 teeth** — and the tooth count follows as pitch length divided by the 9.525 mm pitch. Each row lists the primary code **300L** together with the alternative length-code form **L300**; **300L**, **L300** and **L-300** are three ways to write the same length code. Width is chosen separately (050 / 075 / 100 / 150) and is not printed on the belt.

Table 4 Complete L Synchronous Belt Size Chart — 185 codes, 67L to 2700L

Belt Code	Alt. Code	Len (in)	Len (mm)	Teeth	Belt Code	Alt. Code	Len (in)	Len (mm)	Teeth	Belt Code	Alt. Code	Len (in)	Len (mm)	Teeth
67L	L67	6.7	170.2	18	307L	L307	30.7	779.8	82	570L	L570	57.0	1447.8	152
98L	L98	9.8	248.9	26	310L	L310	31.0	787.4	83	574L	L574	57.4	1458.0	153
100L	L100	10.0	254.0	27	315L	L315	31.5	800.1	84	581L	L581	58.1	1475.7	155
109L	L109	10.9	276.9	29	319L	L319	31.9	810.3	85	585L	L585	58.5	1485.9	156
112L	L112	11.2	284.5	30	320L	L320	32.0	812.8	85	600L	L600	60.0	1524.0	160
113L	L113	11.3	287.0	30	322L	L322	32.2	817.9	86	615L	L615	61.5	1562.1	164
120L	L120	12.0	304.8	32	328L	L328	32.8	833.1	87	619L	L619	61.9	1572.3	165
124L	L124	12.4	315.0	33	330L	L330	33.0	838.2	88	630L	L630	63.0	1600.2	168
127L	L127	12.7	322.6	34	334L	L334	33.4	848.4	89	634L	L634	63.4	1610.4	169
130L	L130	13.0	330.2	35	337L	L337	33.7	856.0	90	640L	L640	64.0	1625.6	171
131L	L131	13.1	332.7	35	341L	L341	34.1	866.1	91	645L	L645	64.5	1638.3	172
135L	L135	13.5	342.9	36	344L	L344	34.4	873.8	92	653L	L653	65.3	1658.6	174
139L	L139	13.9	353.1	37	345L	L345	34.5	876.3	92	660L	L660	66.0	1676.4	176
143L	L143	14.3	363.2	38	348L	L348	34.8	883.9	93	675L	L675	67.5	1714.5	180
150L	L150	15.0	381.0	40	352L	L352	35.2	894.1	94	694L	L694	69.4	1762.8	185
154L	L154	15.4	391.2	41	355L	L355	35.5	901.7	95	697L	L697	69.7	1770.4	186
158L	L158	15.8	401.3	42	360L	L360	36.0	914.4	96	700L	L700	70.0	1778.0	187
160L	L160	16.0	406.4	43	364L	L364	36.4	924.6	97	701L	L701	70.1	1780.5	187
165L	L165	16.5	419.1	44	367L	L367	36.7	932.2	98	709L	L709	70.9	1800.9	189
169L	L169	16.9	429.3	45	371L	L371	37.1	942.3	99	720L	L720	72.0	1828.8	192
173L	L173	17.3	439.4	46	375L	L375	37.5	952.5	100	728L	L728	72.8	1849.1	194
177L	L177	17.7	449.6	47	378L	L378	37.8	960.1	101	731L	L731	73.1	1856.7	195
178L	L178	17.8	452.1	47	382L	L382	38.2	970.3	102	739L	L739	73.9	1877.1	197
180L	L180	18.0	457.2	48	387L	L387	38.7	983.0	103	750L	L750	75.0	1905.0	200
185L	L185	18.5	469.9	49	390L	L390	39.0	990.6	104	765L	L765	76.5	1943.1	204
187L	L187	18.7	475.0	50	394L	L394	39.4	1000.8	105	769L	L769	76.9	1953.3	205
191L	L191	19.1	485.1	51	397L	L397	39.7	1008.4	106	780L	L780	78.0	1981.2	208
195L	L195	19.5	495.3	52	398L	L398	39.8	1010.9	106	788L	L788	78.8	2001.5	210
200L	L200	20.0	508.0	53	400L	L400	40.0	1016.0	107	795L	L795	79.5	2019.3	212
202L	L202	20.2	513.1	54	405L	L405	40.5	1028.7	108	806L	L806	80.6	2047.2	215
203L	L203	20.3	515.6	54	408L	L408	40.8	1036.3	109	817L	L817	81.7	2075.2	218
206L	L206	20.6	523.2	55	412L	L412	41.2	1046.5	110	840L	L840	84.0	2133.6	224
210L	L210	21.0	533.4	56	416L	L416	41.6	1056.6	111	855L	L855	85.5	2171.7	228
214L	L214	21.4	543.6	57	420L	L420	42.0	1066.8	112	863L	L863	86.3	2192.0	230
217L	L217	21.7	551.2	58	427L	L427	42.7	1084.6	114	866L	L866	86.6	2199.6	231
220L	L220	22.0	558.8	59	430L	L430	43.0	1092.2	115	870L	L870	87.0	2209.8	232
225L	L225	22.5	571.5	60	435L	L435	43.5	1104.9	116	881L	L881	88.1	2237.7	235
229L	L229	22.9	581.7	61	439L	L439	43.9	1115.1	117	889L	L889	88.9	2258.1	237
230L	L230	23.0	584.2	61	442L	L442	44.2	1122.7	118	900L	L900	90.0	2286.0	240
232L	L232	23.2	589.3	62	446L	L446	44.6	1132.8	119	915L	L915	91.5	2324.1	244
233L	L233	23.3	591.8	62	450L	L450	45.0	1143.0	120	934L	L934	93.4	2372.4	249
236L	L236	23.6	599.4	63	453L	L453	45.3	1150.6	121	938L	L938	93.8	2382.5	250
240L	L240	24.0	609.6	64	457L	L457	45.7	1160.8	122	971L	L971	97.1	2466.3	259
244L	L244	24.4	619.8	65	461L	L461	46.1	1170.9	123	980L	L980	98.0	2489.2	261
248L	L248	24.8	629.9	66	465L	L465	46.5	1181.1	124	982L	L982	98.2	2494.3	262
250L	L250	25.0	635.0	67	470L	L470	47.0	1193.8	125	994L	L994	99.4	2524.8	265
251L	L251	25.1	637.5	67	472L	L472	47.2	1198.9	126	1028L	L1028	102.8	2611.1	274
255L	L255	25.5	647.7	68	480L	L480	48.0	1219.2	128	1043L	L1043	104.3	2649.2	278
258L	L258	25.8	655.3	69	484L	L484	48.4	1229.4	129	1065L	L1065	106.5	2705.1	284
263L	L263	26.3	668.0	70	488L	L488	48.8	1239.5	130	1148L	L1148	114.8	2915.9	306
265L	L265	26.5	673.1	71	495L	L495	49.5	1257.3	132	1170L	L1170	117.0	2971.8	312
270L	L270	27.0	685.8	72	500L	L500	50.0	1270.0	133	1192L	L1192	119.2	3027.7	318
275L	L275	27.5	698.5	73	510L	L510	51.0	1295.4	136	1200L	L1200	120.0	3048.0	320
277L	L277	27.7	703.6	74	514L	L514	51.4	1305.6	137	1275L	L1275	127.5	3238.5	340
280L	L280	28.0	711.2	75	518L	L518	51.8	1315.7	138	1294L	L1294	129.4	3286.8	345
281L	L281	28.1	713.7	75	525L	L525	52.5	1333.5	140	1406L	L1406	140.6	3571.2	375
285L	L285	28.5	723.9	76	540L	L540	54.0	1371.6	144	1418L	L1418	141.8	3601.7	378
289L	L289	28.9	734.1	77	548L	L548	54.8	1391.9	146	1675L	L1675	167.5	4254.5	447
292L	L292	29.2	741.7	78	550L	L550	55.0	1397.0	147	1988L	L1988	198.8	5049.5	530
296L	L296	29.6	751.8	79	555L	L555	55.5	1409.7	148	2093L	L2093	209.3	5316.2	558
300L	L300	30.0	762.0	80	560L	L560	56.0	1422.4	149	2700L	L2700	270.0	6858.0	720
304L	L304	30.4	772.2	81	563L	L563	56.3	1430.0	150					

All **185** codes from **67L** to **2700L** are listed above; custom lengths and widths on request. Download the specification PDF from the product page: drive-belt.com/timing-belts/l-timing-belt.

5. Materials, Construction & Application

> **Layer 01 — Tensile member**
> High-strength glass fiber cord carries the full tensile load with very low elongation, keeping the pitch length stable under load. Aramid cord is available on request.

> **Layer 02 — Body compound**
> Premium synthetic chloroprene rubber (CR) blended with additives; bonds and protects the cord and resists heat, cold, oil, water, acid, alkali, ozone and flex fatigue. Food-grade, anti-static and heat-resistant grades are available.

> **Layer 03 — Tooth facing**
> Specially treated high-elasticity Nylon 66 fabric; low friction and high wear resistance preserve the tooth form and keep the drive quiet.

5.1 Application

L belts are used for light-to-medium duty drives such as conveyors, packaging machinery, food processing and printing equipment, textile machinery, HVAC drives, agricultural equipment, pumps, blowers, sewing machines and vending machines, as well as drop-in replacement on existing L pulley installations.



Figure 3: An L timing belt on a compact linear drive — positive tooth engagement keeps the speed exact, with no slip and no lubrication.

6. Contact & Ordering Information

Company: Pingxiang Husheng Rubber Products Co.,Ltd • **Brand:** Shusheng
Website: https://drive-belt.com • **L Belt page:** https://drive-belt.com/timing-belts/l-timing-belt
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