PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

MXL Synchronous Belt — Specification & Complete Size Chart

2.032 mm (0.080 in) Pitch Trapezoidal Timing Belt · Conforms to ISO 5296 · Shusheng Brand

Shusheng

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MXL Synchronous Belt — Specification, Materials & Complete Size Chart

1. MXL Synchronous Belt Overview

The 2.032 mm pitch miniature member of the inch-pitch trapezoidal timing belt family.

The MXL synchronous belt is an **inch-pitch trapezoidal tooth** timing belt with a **2.032 mm (0.080 in) pitch**. It is the smallest commonly used member of the inch-pitch family and is built for miniature, light-duty precision drives where space is tight and exact timing matters. Power is transmitted by tooth-and-groove meshing rather than by friction, so an MXL drive has no slip and no speed drift.

Every MXL belt in this catalogue is manufactured to conform to the **ISO 5296** standard for synchronous belt drives with trapezoidal tooth profiles. Transmission efficiency reaches 98% or more, the speed ratio extends to 1:10, and the permissible line speed reaches 50 m/s.

This document keeps to the four things a buyer needs: how to read the MXL belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **MXL-21** to **MXL-1771** (section 4). Contact and ordering information follows.



Figure 1: An MXL synchronous belt — 2.032 mm (0.080 in) pitch, 0.51 mm tooth height, 1.14 mm belt thickness — with the moulded belt code 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 MXL profile is defined by four numbers: a **tooth pitch of 2.032 mm (0.080 in)**, a **tooth height of 0.51 mm (0.020 in)**, a **belt thickness of 1.14 mm (0.045 in)** and a tooth flank angle of **40°**. The trapezoidal tooth gives a compact, positive meshing drive with low backlash.

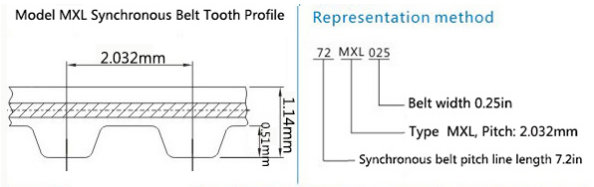


Figure 2: MXL tooth profile and representation method — 2.032 mm pitch and 0.51 mm tooth height, with the code read as pitch length code – profile MXL – belt width code.

2.2 How the code reads

An MXL belt is designated by its **pitch line length code**, followed by the letters **MXL** for the profile. The number in the code is the pitch line length in **tenths of an inch**: the code **MXL-200** means an MXL synchronous belt with a pitch line length of **20.0 inches** (508.0 mm) and a 2.032 mm trapezoidal tooth profile. Pitch length in millimetres equals the length in inches multiplied by 25.4.

Some models use fractional length codes such as 29.6MXL and 101.6MXL for non-integer inch lengths. In this catalogue the profile prefix is written first, so the same 20.0 inch belt appears in the size chart as **MXL-200**; MXL-200, 20.0MXL and the full ordering code 20.0-MXL-025 all describe the same pitch length. The shortest belt listed, **MXL-21**, has a pitch line length of 2.1 inches (53.3 mm), and the longest, **MXL-1771**, has a pitch line length of 177.1 inches (4498.3 mm).

The number is the **pitch line length** — the length measured at the cord line of the belt — not the outside circumference and not the inside length. For any MXL belt the tooth count follows from the pitch: teeth = pitch length divided by 2.032 mm.

2.3 Belt width codes

Four standard widths are stocked, identified by a three-digit width code. The full ordering code places the width last.

Table 1 MXL standard belt widths

Width Code	Width (in)	Width (mm)	Typical Use
012	0.12 in	3.0 mm	Miniature instruments, precision meters, camera drives
019	0.19 in	4.8 mm	Small office equipment, printer mechanisms
025	0.25 in	6.4 mm	Paper feeds, small appliances, light conveyors

037	0.37 in	9.4 mm	Higher-torque miniature drives and miniature automation

2.4 Marking on the belt

Each belt carries its full code — pitch length, profile and width — on the back, so a belt in service can be re-ordered without measuring the drive.

2.5 Interchangeability

The MXL profile is **not interchangeable** with a different pitch: an MXL belt must run on an MXL pulley, an HTD 2M or 2GT belt (2.00 mm pitch) on its matching pulley, and a T2.5 belt (2.5 mm pitch) on a T2.5 pulley. The pitches are close but the tooth geometry differs, so a mismatched pair will jump teeth. Within the MXL system, belts of the same code are dimensionally interchangeable between makers, as all conform to ISO 5296.

3. Technical Specifications

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

Table 2 MXL Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Inch-pitch trapezoidal synchronous belt (MXL series)
Tooth Pitch	2.032 mm (0.080 in)
Tooth Height	0.51 mm (0.020 in)
Belt Thickness	1.14 mm (0.045 in)
Tooth Flank Angle	40°
Minimum Pulley Diameter	6.47 mm (0.255 in) for a 10-tooth pulley
Standard Widths	0.12 / 0.19 / 0.25 / 0.37 in (3.0 / 4.8 / 6.4 / 9.4 mm); custom widths available on request
Standard	Conforms to ISO 5296 (synchronous belt drives, trapezoidal tooth profiles)

Table 3 MXL Synchronous Belt — Construction & Performance

Property	Specification
Tensile Member	High-strength glass fiber cord, very low elongation
Body Compound	Premium synthetic chloroprene rubber (CR), blended with rubber additives
Tooth Facing	Specially treated Nylon 66 high-elastic fabric
Transmission Efficiency	Up to 98%

Speed Ratio	Up to 1:10
Maximum Line Speed	50 m/s
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	MXL-21 to MXL-1771 — 2.1 in to 177.1 in (53.3 mm to 4498.3 mm)
Number of Standard Codes	363
Minimum Order Quantity	50 pcs per size (stock sizes)
Standard Delivery	15–20 days from order confirmation
Indicative Price Range	US$0.96 – US$80.97 per piece (varies by size and width)

In plain terms, every MXL belt has a 2.032 mm pitch, a 0.51 mm tooth height and a 1.14 mm belt thickness, and runs at up to 50 m/s between −30 °C and +90 °C with up to 98% transmission efficiency.

3.1 Reading an MXL belt code

Three worked examples show how a code maps to the dimensions. **MXL-36** has a pitch line length of 3.6 inches (91.4 mm) and 45 teeth, **MXL-200** has a pitch line length of 20.0 inches (508.0 mm) and 250 teeth, and **MXL-1000** has a pitch line length of 100.0 inches (2540.0 mm) and 1250 teeth; every MXL belt shares the same 2.032 mm pitch, 0.51 mm tooth height and 1.14 mm thickness.

Table 4 Worked examples — how an MXL belt code reads

Belt Code	Pitch Length (in)	Pitch Length (mm)	Teeth (n)	Tooth Pitch
MXL-36	3.6	91.4	45	2.032 mm
MXL-200	20.0	508.0	250	2.032 mm
MXL-1000	100.0	2540.0	1250	2.032 mm

4. Complete MXL Size Chart

Table 5 Complete MXL Synchronous Belt Size Chart — 363 codes, MXL-21 to MXL-1771

Belt Code	Pitch Length (in)	Pitch Length (mm)	Belt Code	Pitch Length (in)	Pitch Length (mm)	Belt Code	Pitch Length (in)	Pitch Length (mm)	Belt Code	Pitch Length (in)	Pitch Length (mm)	Belt Code	Pitch Length (in)	Pitch Length (mm)	Belt Code	Pitch Length (in)	Pitch Length (mm)
MXL-21	2.1	53.3	MXL-73	7.3	185.4	MXL-121.6	12.2	308.9	MXL-181.6	18.2	461.3	MXL-273	27.3	693.4	MXL-440	44.0	1117.6
MXL-22	2.2	55.9	MXL-73.6	7.4	186.9	MXL-122	12.2	309.9	MXL-182	18.2	462.3	MXL-275	27.5	698.5	MXL-445	44.5	1130.3
MXL-24	2.4	61.0	MXL-74	7.4	188.0	MXL-123	12.3	312.4	MXL-183	18.3	464.8	MXL-277	27.7	703.6	MXL-446	44.6	1132.8
MXL-26	2.6	66.0	MXL-75	7.5	190.5	MXL-124	12.4	315.0	MXL-184	18.4	467.4	MXL-278	27.8	706.1	MXL-456	45.6	1158.2
MXL-27	2.7	68.6	MXL-76	7.6	193.0	MXL-125	12.5	317.5	MXL-185.6	18.6	471.4	MXL-280	28.0	711.2	MXL-457	45.7	1160.8
MXL-28	2.8	71.1	MXL-77	7.7	195.6	MXL-125.6	12.6	319.0	MXL-186	18.6	472.4	MXL-282	28.2	716.3	MXL-464	46.4	1178.6
MXL-29	2.9	73.7	MXL-77.6	7.8	197.1	MXL-126	12.6	320.0	MXL-187	18.7	475.0	MXL-285	28.5	723.9	MXL-466	46.6	1183.6
MXL-29.6	3.0	75.2	MXL-78	7.8	198.1	MXL-127	12.7	322.6	MXL-188	18.8	477.5	MXL-286	28.6	726.4	MXL-473	47.3	1201.4
MXL-30	3.0	76.2	MXL-79	7.9	200.7	MXL-128	12.8	325.1	MXL-189	18.9	480.1	MXL-287	28.7	729.0	MXL-474	47.4	1204.0
MXL-31	3.1	78.7	MXL-80	8.0	203.2	MXL-129	12.9	327.7	MXL-189.6	19.0	481.6	MXL-288	28.8	731.5	MXL-480	48.0	1219.2
MXL-32	3.2	81.3	MXL-81	8.1	205.7	MXL-129.6	13.0	329.2	MXL-190	19.0	482.6	MXL-290	29.0	736.6	MXL-488	48.8	1239.5
MXL-33	3.3	83.8	MXL-81.6	8.2	207.3	MXL-130	13.0	330.2	MXL-191	19.1	485.1	MXL-292	29.2	741.7	MXL-490	49.0	1244.6
MXL-33.6	3.4	85.3	MXL-82	8.2	208.3	MXL-131	13.1	332.7	MXL-192	19.2	487.7	MXL-297	29.7	754.4	MXL-496	49.6	1259.8
MXL-34	3.4	86.4	MXL-83	8.3	210.8	MXL-132	13.2	335.3	MXL-194	19.4	492.8	MXL-298	29.8	756.9	MXL-506	50.6	1285.2
MXL-35	3.5	88.9	MXL-84	8.4	213.4	MXL-133	13.3	337.8	MXL-195	19.5	495.3	MXL-300	30.0	762.0	MXL-518	51.8	1315.7
MXL-36	3.6	91.4	MXL-85	8.5	215.9	MXL-133.6	13.4	339.3	MXL-196	19.6	497.8	MXL-302	30.2	767.1	MXL-522	52.2	1325.9
MXL-37	3.7	94.0	MXL-85.6	8.6	217.4	MXL-134	13.4	340.4	MXL-198	19.8	502.9	MXL-304	30.4	772.2	MXL-525	52.5	1333.5

MXL-37.6	3.8	95.5	MXL-86	8.6	218.4	MXL-135	13.5	342.9	MXL-199	19.9	505.5	MXL-310	31.0	787.4	MXL-532	53.2	1351.3
MXL-38	3.8	96.5	MXL-87	8.7	221.0	MXL-136	13.6	345.4	MXL-200	20.0	508.0	MXL-312	31.2	792.5	MXL-544	54.4	1381.8
MXL-39	3.9	99.1	MXL-88	8.8	223.5	MXL-137	13.7	348.0	MXL-201	20.1	510.5	MXL-314	31.4	797.6	MXL-545	54.5	1384.3
MXL-40	4.0	101.6	MXL-89	8.9	226.1	MXL-138	13.8	350.5	MXL-204	20.4	518.2	MXL-318	31.8	807.7	MXL-558	55.8	1417.3
MXL-41	4.1	104.1	MXL-89.6	9.0	227.6	MXL-139	13.9	353.1	MXL-205	20.5	520.7	MXL-324	32.4	823.0	MXL-564	56.4	1432.6
MXL-41.6	4.2	105.7	MXL-90	9.0	228.6	MXL-140	14.0	355.6	MXL-208	20.8	528.3	MXL-326	32.6	828.0	MXL-581	58.1	1475.7
MXL-42	4.2	106.7	MXL-91	9.1	231.1	MXL-142	14.2	360.7	MXL-210	21.0	533.4	MXL-328	32.8	833.1	MXL-600	60.0	1524.0
MXL-43	4.3	109.2	MXL-92	9.2	233.7	MXL-144	14.4	365.8	MXL-212	21.2	538.5	MXL-330	33.0	838.2	MXL-608	60.8	1544.3
MXL-44	4.4	111.8	MXL-93	9.3	236.2	MXL-145	14.5	368.3	MXL-213	21.3	541.0	MXL-332	33.2	843.3	MXL-610	61.0	1549.4
MXL-45	4.5	114.3	MXL-93.6	9.4	237.7	MXL-145.6	14.6	369.8	MXL-214	21.4	543.6	MXL-334	33.4	848.4	MXL-621	62.1	1577.3
MXL-45.6	4.6	115.8	MXL-94	9.4	238.8	MXL-146	14.6	370.8	MXL-216	21.6	548.6	MXL-339	33.9	861.1	MXL-640	64.0	1625.6
MXL-46	4.6	116.8	MXL-95	9.5	241.3	MXL-147	14.7	373.4	MXL-218	21.8	553.7	MXL-342	34.2	868.7	MXL-644	64.4	1635.8
MXL-47	4.7	119.4	MXL-96	9.6	243.8	MXL-149	14.9	378.5	MXL-220	22.0	558.8	MXL-345	34.5	876.3	MXL-725	72.5	1841.5
MXL-48	4.8	121.9	MXL-97	9.7	246.4	MXL-149.6	15.0	380.0	MXL-221	22.1	561.3	MXL-347	34.7	881.4	MXL-730	73.0	1854.2
MXL-49	4.9	124.5	MXL-97.6	9.8	247.9	MXL-150	15.0	381.0	MXL-224	22.4	569.0	MXL-348	34.8	883.9	MXL-744	74.4	1889.8
MXL-49.6	5.0	126.0	MXL-98	9.8	248.9	MXL-151	15.1	383.5	MXL-226	22.6	574.0	MXL-358	35.8	909.3	MXL-764	76.4	1940.6
MXL-50	5.0	127.0	MXL-99	9.9	251.5	MXL-152	15.2	386.1	MXL-227	22.7	576.6	MXL-362	36.2	919.5	MXL-766	76.6	1945.6
MXL-51	5.1	129.5	MXL-100	10.0	254.0	MXL-153.6	15.4	390.1	MXL-228	22.8	579.1	MXL-368	36.8	934.7	MXL-810	81.0	2057.4
MXL-52	5.2	132.1	MXL-101	10.1	256.5	MXL-154	15.4	391.2	MXL-231	23.1	586.7	MXL-370	37.0	939.8	MXL-819	81.9	2080.3
MXL-53	5.3	134.6	MXL-101.6	10.2	258.1	MXL-155	15.5	393.7	MXL-232	23.2	589.3	MXL-371	37.1	942.3	MXL-824	82.4	2093.0
MXL-53.6	5.4	136.1	MXL-102	10.2	259.1	MXL-156	15.6	396.2	MXL-234	23.4	594.4	MXL-374	37.4	950.0	MXL-848	84.8	2153.9
MXL-54	5.4	137.2	MXL-103	10.3	261.6	MXL-157	15.7	398.8	MXL-236	23.6	599.4	MXL-378	37.8	960.1	MXL-861	86.1	2186.9
MXL-55	5.5	139.7	MXL-104	10.4	264.2	MXL-157.6	15.8	400.3	MXL-238	23.8	604.5	MXL-380	38.0	965.2	MXL-862	86.2	2189.5
MXL-56	5.6	142.2	MXL-105	10.5	266.7	MXL-158	15.8	401.3	MXL-240	24.0	609.6	MXL-382	38.2	970.3	MXL-864	86.4	2194.6
MXL-57	5.7	144.8	MXL-105.6	10.6	268.2	MXL-160	16.0	406.4	MXL-244	24.4	619.8	MXL-386	38.6	980.4	MXL-870	87.0	2209.8
MXL-57.6	5.8	146.3	MXL-106	10.6	269.2	MXL-161.6	16.2	410.5	MXL-246	24.6	624.8	MXL-388	38.8	985.5	MXL-896	89.6	2275.8
MXL-58	5.8	147.3	MXL-107	10.7	271.8	MXL-162	16.2	411.5	MXL-247	24.7	627.4	MXL-390	39.0	990.6	MXL-910	91.0	2311.4
MXL-59	5.9	149.9	MXL-108	10.8	274.3	MXL-164	16.4	416.6	MXL-248	24.8	629.9	MXL-398	39.8	1010.9	MXL-933	93.3	2369.8
MXL-60	6.0	152.4	MXL-109	10.9	276.9	MXL-165	16.5	419.1	MXL-250	25.0	635.0	MXL-400	40.0	1016.0	MXL-1000	100.0	2540.0
MXL-61	6.1	154.9	MXL-109.6	11.0	278.4	MXL-165.6	16.6	420.6	MXL-252	25.2	640.1	MXL-403	40.3	1023.6	MXL-1104	110.4	2804.2
MXL-61.6	6.2	156.5	MXL-110	11.0	279.4	MXL-166	16.6	421.6	MXL-254	25.4	645.2	MXL-404	40.4	1026.2	MXL-1114	111.4	2829.6
MXL-62	6.2	157.5	MXL-111	11.1	281.9	MXL-168	16.8	426.7	MXL-256	25.6	650.2	MXL-406	40.6	1031.2	MXL-1141	114.1	2898.1
MXL-63	6.3	160.0	MXL-112	11.2	284.5	MXL-170	17.0	431.8	MXL-257.6	25.8	654.3	MXL-413	41.3	1049.0	MXL-1170	117.0	2971.8
MXL-64	6.4	162.6	MXL-113	11.3	287.0	MXL-171	17.1	434.3	MXL-258	25.8	655.3	MXL-418	41.8	1061.7	MXL-1213	121.3	3081.0
MXL-65	6.5	165.1	MXL-113.6	11.4	288.5	MXL-172	17.2	436.9	MXL-259	25.9	657.9	MXL-420	42.0	1066.8	MXL-1384	138.4	3515.4
MXL-65.6	6.6	166.6	MXL-114	11.4	289.6	MXL-173	17.3	439.4	MXL-260	26.0	660.4	MXL-425	42.5	1079.5	MXL-1386	138.6	3520.4
MXL-66	6.6	167.6	MXL-115	11.5	292.1	MXL-174	17.4	442.0	MXL-262	26.2	665.5	MXL-428	42.8	1087.1	MXL-1422	142.2	3611.9
MXL-67	6.7	170.2	MXL-116	11.6	294.6	MXL-175	17.5	444.5	MXL-264	26.4	670.6	MXL-432	43.2	1097.3	MXL-1445	144.5	3670.3
MXL-68	6.8	172.7	MXL-117	11.7	297.2	MXL-176	17.6	447.0	MXL-266	26.6	675.6	MXL-433	43.3	1099.8	MXL-1446	144.6	3672.8
MXL-69	6.9	175.3	MXL-117.6	11.8	298.7	MXL-177	17.7	449.6	MXL-267	26.7	678.2	MXL-435	43.5	1104.9	MXL-1500	150.0	3810.0
MXL-69.6	7.0	176.8	MXL-118	11.8	299.7	MXL-178	17.8	452.1	MXL-269	26.9	683.3	MXL-437	43.7	1110.0	MXL-1504	150.4	3820.2
MXL-70	7.0	177.8	MXL-119	11.9	302.3	MXL-179	17.9	454.7	MXL-270	27.0	685.8	MXL-438	43.8	1112.5	MXL-1635	163.5	4152.9
MXL-71	7.1	180.3	MXL-120	12.0	304.8	MXL-180	18.0	457.2	MXL-272	27.2	690.9	MXL-439	43.9	1115.1	MXL-1771	177.1	4498.3
MXL-72	7.2	182.9	MXL-121	12.1	307.3	MXL-181	18.1	459.7									

Every size in the range — **363 belt codes** from **MXL-21** to **MXL-1771** — is listed above. The number in an MXL belt code is the pitch line length in tenths of an inch: MXL-200 is 20.0 inches, MXL-29.6 is 2.96 inches. Pitch length in millimetres equals the length in inches multiplied by 25.4, and the tooth count follows as pitch length divided by the 2.032 mm pitch. Codes run from 2.1 inches to 177.1 inches (53.3 mm to 4498.3 mm). Differences of less than one step are supplied as custom sizes on request.

> All MXL belts in this catalogue conform to the ISO 5296 standard for synchronous belt drives with trapezoidal tooth profiles, which fixes the tooth dimensions, pitch spacing and length tolerances so that an MXL belt of the same code is dimensionally interchangeable with equivalent-profile MXL belts from other mainstream manufacturers.

Download the MXL Timing Belt Specification PDF from the product page:
https://drive-belt.com/timing-belts/mxl-synchronous-belt

5. Materials & Construction

A three-layer composite: tensile cord, rubber body and wear-resistant tooth facing.

> **Layer 01 — Tensile member**
> High-strength glass fiber cord. The cord has very low elongation and keeps the pitch length stable under load, so the drive does not lose indexing accuracy as the torque rises.

> **Layer 02 — Body compound**
> Premium synthetic chloroprene rubber (CR), blended with rubber additives. It bonds and protects the cord, transmits the load, and resists heat, cold, oil, water and chemicals while holding the tooth form under repeated meshing load.

> **Layer 03 — Tooth facing**
> Specially treated Nylon 66 high-elastic fabric. Its low friction and high wear resistance protect the trapezoidal tooth profile and keep meshing quiet through the life of the belt.

5.1 Applications

MXL belts drive office printers, copiers, scanners and paper-feed mechanisms, precision instruments and meters, camera drives, small appliances and miniature automation.

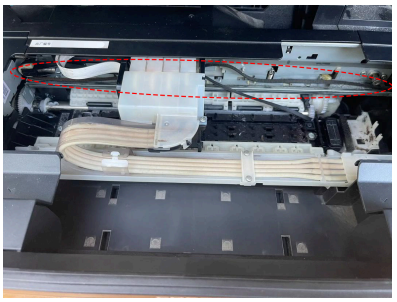


Figure 3: An MXL belt driving the carriage and paper-feed mechanism of an office printer — the 2.032 mm pitch suits compact, light-duty precision drives.

6. Contact & Ordering Information

Send the belt code and quantity; we will confirm stock and ship within 15–20 days.

> **Company:** Pingxiang Husheng Rubber Products Co.,Ltd · **Brand:** Shusheng
> **Website:** https://drive-belt.com
> **MXL Timing Belt page:** https://drive-belt.com/timing-belts/mxl-synchronous-belt
> **Email:** panhusheng@zohomail.cn
> **Tel / WhatsApp:** +86 151 0799 3145
> **Address:** No. 132 Xihuan Road, Anyuan District, Pingxiang City, Jiangxi Province, China

When ordering, give the pitch length code, the profile (MXL) and the belt width code, for example 200-MXL-025. We confirm pulley compatibility and quote from stock lengths.