PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

T5 Synchronous Belt — Specification & Complete Size Chart

5 mm Pitch Trapezoidal Timing Belt · Conforms to ISO 17396 · Shusheng Brand

Shusheng

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T5 Synchronous Belt — Specification, Materials & Complete Size Chart

1. T5 Synchronous Belt Overview

The 5 mm pitch metric member of the trapezoidal timing belt family.

The T5 synchronous belt is a **metric-pitch trapezoidal tooth** timing belt with an exact **5 mm pitch**, built for compact, high-precision light-duty drives where accurate positioning matters more than raw torque. Power is transmitted by tooth-and-groove meshing rather than by friction, so a T5 drive runs with no slip, no lubrication and no speed variation. At 98% or more transmission efficiency, with a speed ratio up to 1:10 and a permissible line speed of 40 m/s, every T5 belt in this catalogue is manufactured to conform to **ISO 17396**, the standard for metric-pitch trapezoidal tooth profiles (T system).

This document keeps to the four things a buyer needs: how to read the T5 belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **T5-135** to **T5-4800** (section 4). Contact and ordering information follows.

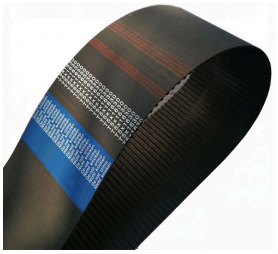


Figure 1: A T5 synchronous belt — 5 mm pitch, 1.2 mm tooth height, 2.2 mm belt thickness — with the moulded belt code on the back.

2. Belt Designation & Code Meaning

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

2.1 Profile geometry

The T5 profile is defined by four numbers: a **tooth pitch of 5 mm**, a **tooth height of 1.2 mm**, a **belt thickness of 2.2 mm** and a tooth flank angle of **40°**. The trapezoidal tooth gives a compact, positive meshing drive with low backlash.

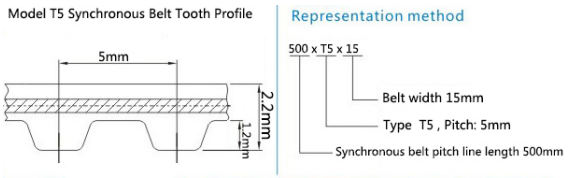


Figure 2: T5 tooth profile and representation method — 5 mm pitch and 1.2 mm tooth height, with the code read as pitch line length – type T5 – belt width.

2.2 How the code reads

A T5 belt is designated by its **pitch line length in millimetres** followed by the profile letters **T5**: the code **T5-800** means a T5 belt with a pitch line length of **800 mm** (the same belt also appears as 800-T5 or 800xT5 in some catalogues). The number is the **pitch line length** measured at the cord line, not the outside circumference and not the inside length. Belt width is chosen separately, and the full ordering code places the width last.

Because the pitch length is always a whole multiple of 5 mm, the tooth count follows directly: teeth = pitch length divided by the 5 mm pitch. So **T5-800** has 160 teeth; the shortest belt listed, **T5-135**, has a pitch line length of 135 mm, and the longest, **T5-4800**, 4800 mm.

2.3 Belt widths

Seven standard widths are stocked, selected separately from the pitch length to suit the load to be transmitted.

Table 1 T5 standard belt widths

Width (mm)	Typical Use
6 mm	Ultra-light precision positioning, miniature 3D printers
10 mm	Light-duty precision positioning, small automation
15 mm	3D printers, linear actuators, office equipment
20 mm	Medium-duty linear motion, small conveyors
25 mm	Medium-duty linear motion, small conveyors
32 mm	General-purpose light industrial drives, most popular width
50 mm	Wider light-to-medium duty drives, gantry and curtain systems

2.4 Marking & interchangeability

Each belt carries its pitch line length and the type T5 on the back, so a belt in service can be re-ordered without measuring the drive. A T5 belt must run on a T5 pulley — not on an AT5 pulley (same 5 mm pitch, modified tooth) or an inch-pitch XL pulley, whose 5.08 mm pitch will not mesh — and belts of the same code are dimensionally interchangeable between makers, as all conform to ISO 17396.

3. Technical Specifications

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

Table 2 T5 Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Metric-pitch trapezoidal synchronous belt (T5 series)
Tooth Pitch	5 mm
Tooth Height	1.2 mm
Belt Thickness	2.2 mm
Tooth Flank Angle	40°
Tooth Profile	Trapezoidal
Standard Widths	6 / 10 / 15 / 20 / 25 / 32 / 50 mm; custom widths available on request
Standard	Conforms to ISO 17396 (synchronous belt drives, metric pitch trapezoidal profiles, belts and pulleys)

Table 3 T5 Synchronous Belt — Construction & Performance

Property	Specification
Tensile Member	High-strength glass fiber cord, very low elongation
Body Compound	Premium synthetic chloroprene rubber (CR); HNBR available on request
Tooth Facing	Specially treated Nylon 66 high-elastic fabric
Transmission Efficiency	Up to 98%
Speed Ratio	Up to 1:10
Maximum Line Speed	40 m/s
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	T5-135 to T5-4800 — 135 mm to 4800 mm (213 standard codes)
Minimum Order Quantity	200 pcs per size; 200 pcs for custom orders
Indicative Price Range	US$0.49 – US$144.00 per piece (varies by size and width)

Three worked examples show how a code maps to the dimensions: **T5-135** has a pitch line length of 135 mm and 27 teeth, **T5-800** has 800 mm and 160 teeth, and **T5-3000** has 3000 mm and 600 teeth. Every T5 belt shares the same 5 mm pitch, 1.2 mm tooth height and 2.2 mm thickness, and runs at up to 40 m/s between −30 °C and +90 °C with up to 98% transmission efficiency.

4. Complete T5 Size Chart

The table below lists every stocked T5 belt code with its pitch line length and tooth count, followed by the full size chart. The number in a T5 belt code is the pitch line length in millimetres, and the tooth count follows as pitch length divided by the 5 mm pitch.

Table 4 Worked examples — how a T5 belt code reads

Belt Code	Pitch Length (mm)	Teeth (n)	Tooth Pitch
T5-135	135	27	5 mm
T5-800	800	160	5 mm
T5-3000	3000	600	5 mm

Table 5 Complete T5 Synchronous Belt Size Chart — 213 codes, T5-135 to T5-4800

Belt Code	Pitch Length (mm)	Teeth (n)	Belt Code	Pitch Length (mm)	Teeth (n)	Belt Code	Pitch Length (mm)	Teeth (n)	Belt Code	Pitch Length (mm)	Teeth (n)	Belt Code	Pitch Length (mm)	Teeth (n)	Belt Code	Pitch Length (mm)	Teeth (n)
T5-135	135	27	T5-325	325	65	T5-525	525	105	T5-740	740	148	T5-1020	1020	204	T5-1430	1430	286
T5-140	140	28	T5-330	330	66	T5-530	530	106	T5-745	745	149	T5-1025	1025	205	T5-1440	1440	288
T5-150	150	30	T5-335	335	67	T5-535	535	107	T5-750	750	150	T5-1030	1030	206	T5-1450	1450	290
T5-160	160	32	T5-340	340	68	T5-540	540	108	T5-755	755	151	T5-1035	1035	207	T5-1475	1475	295
T5-165	165	33	T5-345	345	69	T5-545	545	109	T5-760	760	152	T5-1040	1040	208	T5-1500	1500	300
T5-170	170	34	T5-350	350	70	T5-550	550	110	T5-765	765	153	T5-1045	1045	209	T5-1520	1520	304
T5-175	175	35	T5-355	355	71	T5-555	555	111	T5-780	780	156	T5-1050	1050	210	T5-1550	1550	310
T5-180	180	36	T5-360	360	72	T5-560	560	112	T5-785	785	157	T5-1075	1075	215	T5-1610	1610	322
T5-185	185	37	T5-365	365	73	T5-565	565	113	T5-790	790	158	T5-1090	1090	218	T5-1630	1630	326
T5-190	190	38	T5-370	370	74	T5-570	570	114	T5-800	800	160	T5-1100	1100	220	T5-1700	1700	340
T5-195	195	39	T5-375	375	75	T5-575	575	115	T5-810	810	162	T5-1115	1115	223	T5-1740	1740	348
T5-200	200	40	T5-380	380	76	T5-580	580	116	T5-815	815	163	T5-1125	1125	225	T5-1780	1780	356
T5-205	205	41	T5-385	385	77	T5-585	585	117	T5-825	825	165	T5-1140	1140	228	T5-1800	1800	360
T5-210	210	42	T5-390	390	78	T5-590	590	118	T5-830	830	166	T5-1150	1150	230	T5-1820	1820	364
T5-215	215	43	T5-395	395	79	T5-600	600	120	T5-840	840	168	T5-1200	1200	240	T5-1900	1900	380
T5-220	220	44	T5-420	420	84	T5-605	605	121	T5-850	850	170	T5-1210	1210	242	T5-1905	1905	381
T5-225	225	45	T5-425	425	85	T5-610	610	122	T5-860	860	172	T5-1215	1215	243	T5-1945	1945	389
T5-230	230	46	T5-430	430	86	T5-615	615	123	T5-870	870	174	T5-1230	1230	246	T5-1960	1960	392
T5-235	235	47	T5-435	435	87	T5-620	620	124	T5-880	880	176	T5-1250	1250	250	T5-2000	2000	400
T5-240	240	48	T5-440	440	88	T5-625	625	125	T5-885	885	177	T5-1260	1260	252	T5-2120	2120	424
T5-245	245	49	T5-445	445	89	T5-630	630	126	T5-890	890	178	T5-1270	1270	254	T5-2160	2160	432
T5-250	250	50	T5-450	450	90	T5-635	635	127	T5-900	900	180	T5-1275	1275	255	T5-2220	2220	444
T5-255	255	51	T5-455	455	91	T5-640	640	128	T5-910	910	182	T5-1280	1280	256	T5-2260	2260	452
T5-260	260	52	T5-460	460	92	T5-650	650	130	T5-920	920	184	T5-1300	1300	260	T5-2280	2280	456
T5-265	265	53	T5-465	465	93	T5-660	660	132	T5-925	925	185	T5-1315	1315	263	T5-2500	2500	500
T5-270	270	54	T5-470	470	94	T5-665	665	133	T5-930	930	186	T5-1325	1325	265	T5-2735	2735	547
T5-275	275	55	T5-475	475	95	T5-670	670	134	T5-940	940	188	T5-1335	1335	267	T5-2850	2850	570
T5-280	280	56	T5-480	480	96	T5-675	675	135	T5-950	950	190	T5-1340	1340	268	T5-3000	3000	600
T5-285	285	57	T5-485	485	97	T5-680	680	136	T5-955	955	191	T5-1350	1350	270	T5-3060	3060	612
T5-290	290	58	T5-490	490	98	T5-690	690	138	T5-960	960	192	T5-1355	1355	271	T5-3195	3195	639
T5-295	295	59	T5-495	495	99	T5-695	695	139	T5-970	970	194	T5-1380	1380	276	T5-3290	3290	658
T5-300	300	60	T5-500	500	100	T5-700	700	140	T5-980	980	196	T5-1390	1390	278	T5-3540	3540	708
T5-305	305	61	T5-505	505	101	T5-705	705	141	T5-990	990	198	T5-1400	1400	280	T5-3750	3750	750
T5-310	310	62	T5-510	510	102	T5-710	710	142	T5-1000	1000	200	T5-1415	1415	283	T5-4075	4075	815
T5-315	315	63	T5-515	515	103	T5-720	720	144	T5-1010	1010	202	T5-1420	1420	284	T5-4800	4800	960
T5-320	320	64	T5-520	520	104	T5-725	725	145									

Every size in the range — **213 belt codes** from **T5-135** to **T5-4800** — is listed above. The number in a T5 belt code is the pitch line length in millimetres: T5-800 is 800 mm, and the tooth count follows as pitch length divided by the 5 mm pitch, so T5-800 has 160 teeth. Codes run from 135 mm to 4800 mm. Differences of less than one step are supplied as custom sizes on request.

> All T5 belts in this catalogue conform to the ISO 17396 standard for metric-pitch trapezoidal tooth profiles, which fixes the tooth dimensions, pitch spacing and length

> tolerances so that a T5 belt of the same code is dimensionally interchangeable with equivalent-profile T5 belts from other mainstream manufacturers.

Download the T5 Synchronous Belt Specification PDF from the product page: https://drive-belt.com/timing-belts/t5-timing-belt

5. Materials & Construction

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

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

> **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

T5 belts drive 3D printers, linear actuators, office automation, medical devices and light robotics.

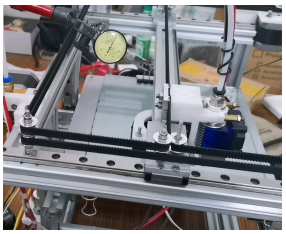


Figure 3: A T5 belt driving a 3D printer — the 5 mm fine pitch suits compact precision drives.

6. Contact & Ordering Information

Send the T5 belt code, the pitch line length and the belt width in millimetres — for example T5-800 at 15 mm. We confirm stock, pulley compatibility and quote, and ship within 15–20 days (MOQ 200 pcs per size).

Company: Pingxiang Husheng Rubber Products Co.,Ltd · **Brand:** Shusheng
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