PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

# T10 Synchronous Belt — Specification & Complete Size Chart

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

**Shusheng**

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## CONTENTS

[1]
1. T10 Synchronous Belt Overview

[2]
2. Belt Designation & Code Meaning

[3]
3. Technical Specifications

[4]
4. Complete T10 Size Chart

[5]
5. Materials & Construction

[6]
6. Contact & Ordering Information

# T10 Synchronous Belt — Specification, Materials & Complete Size Chart

## 1. T10 Synchronous Belt Overview

The 10 mm pitch metric member of the trapezoidal timing belt family.

The T10 synchronous belt is a **metric-pitch trapezoidal tooth** timing belt with an exact **10 mm pitch**. It is built for medium-to-heavy duty precision drives where real torque has to be transmitted while timing stays exact. Power is transmitted by tooth-and-groove meshing rather than by friction, so a T10 drive runs with no slip, no lubrication and no speed variation.

Because a 10 mm metric pitch carries a larger tooth cross-section than an inch-pitch belt of similar width, the T10 belt delivers high torque capacity in a compact drive. Every T10 belt in this catalogue is manufactured to conform to the **ISO 17396** standard for metric-pitch trapezoidal tooth profiles (T system). Transmission efficiency reaches 98% or more, the speed ratio extends to 1:10, and the permissible line speed reaches 35 m/s.

This document keeps to the four things a buyer needs: how to read the T10 belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **T10-120** to **T10-7050** (section 4). Contact and ordering information follows.

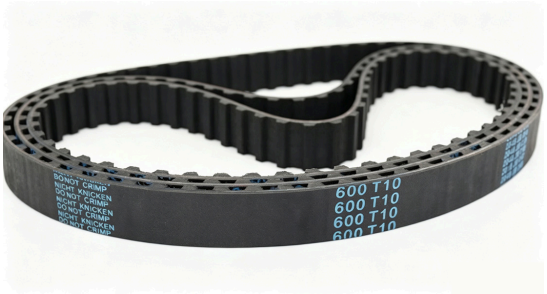



**Figure 1:** A T10 synchronous belt — 10 mm pitch, 2.5 mm tooth height, 4.5 mm belt thickness — with the moulded belt code on the back.

## 2. Belt Designation & Code Meaning

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

### 2.1 Profile geometry

The T10 profile is defined by four numbers: a **tooth pitch of 10 mm**, a **tooth height of 2.5 mm**, a **belt thickness of 4.5 mm** and a tooth flank angle of **40°**. The trapezoidal tooth gives a

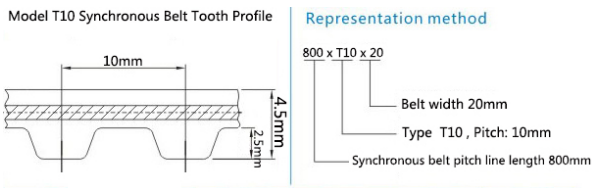



**Figure 2:** T10 tooth profile and representation method — 10 mm pitch and 2.5 mm tooth height, with the code read as pitch line length – type T10 – belt width.

### 2.2 How the code reads

A T10 belt is designated by its **pitch line length in millimetres**, followed by the profile letters **T10**. The number in the code is the pitch line length in millimetres: the code **T10-800** means a T10 synchronous belt with a pitch line length of **800 mm** and a 10 mm trapezoidal tooth profile. The same belt also appears as T10-800 or 800-T10 in some catalogues. Belt width is selected separately to suit the load.

The tooth count follows directly from the pitch, because the pitch length is always a whole multiple of 10 mm: teeth = pitch length divided by the 10 mm pitch. So **T10-800** has 80 teeth, and the shortest belt listed, **T10-120**, has a pitch line length of 120 mm, while the longest, **T10-7050**, has a pitch line length of 7050 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.

### 2.3 Belt widths

Seven standard widths are stocked. Width is selected separately from the pitch length to suit the load to be transmitted. The full ordering code places the width last.

**Table 1 T10 standard belt widths**

| Width (mm) | Typical Use |
|---|---|
| **10 mm** | Light-duty precision positioning, small automation |
| **15 mm** | Light-duty precision positioning, small automation |
| **20 mm** | Medium-duty linear motion, small conveyors |
| **25 mm** | Medium-duty linear motion, small conveyors |
| **30 mm** | General-purpose industrial drives, most popular width |
| **40 mm** | Medium-heavy duty conveyors, packaging machinery |
| **50 mm** | Heavy-duty power transmission, large gantry systems |

### 2.4 Marking on the belt

Each belt carries its pitch line length and the type T10 on the back, so a belt in service can be re-ordered without measuring the drive.

### 2.5 Interchangeability

The T10 profile is **not interchangeable** with a different pitch: a T10 belt must run on a T10 pulley, and an AT10 belt (also 10 mm pitch, but a modified tooth profile) on an AT10 pulley. The pitches match but the tooth geometry differs, so a mismatched pair is not interchangeable. Within the T10 system, 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 T10 Synchronous Belt — Profile & Dimensions**

| Property | Specification |
|---|---|
| **Profile / System** | Metric-pitch trapezoidal synchronous belt (T10 series) |
| **Tooth Pitch** | 10 mm |
| **Tooth Height** | 2.5 mm |
| **Belt Thickness** | 4.5 mm |
| **Tooth Flank Angle** | 40° |
| **Tooth Profile** | Trapezoidal |
| **Standard Widths** | 10 / 15 / 20 / 25 / 30 / 40 / 50 mm; custom widths available on request |
| **Standard** | Conforms to ISO 17396 (synchronous belt drives, metric pitch trapezoidal profiles, belts and pulleys) |

**Table 3 T10 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; 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** | 35 m/s |
| **Operating Temperature** | −30 °C to +90 °C |
| **Pitch Length Range** | T10-120 to T10-7050 — 120 mm to 7050 mm |
| **Number of Standard Codes** | 231 |
| **Minimum Order Quantity** | 100 pcs per size (standard sizes); 200 pcs for custom orders |

| | |
|---|---|
| **Standard Delivery** | 15–20 days from order confirmation |
| **Indicative Price Range** | US$0.60 – US$176.25 per piece (varies by size and width) |

In plain terms, every T10 belt has a 10 mm pitch, a 2.5 mm tooth height and a 4.5 mm belt thickness, and runs at up to 35 m/s between −30 °C and +90 °C with up to 98% transmission efficiency.

### 3.1 Reading a T10 belt code

Three worked examples show how a code maps to the dimensions. **T10-120** has a pitch line length of 120 mm and 12 teeth, **T10-800** has a pitch line length of 800 mm and 80 teeth, and **T10-3000** has a pitch line length of 3000 mm and 300 teeth; every T10 belt shares the same 10 mm pitch, 2.5 mm tooth height and 4.5 mm thickness.

**Table 4 Worked examples — how a T10 belt code reads**

| Belt Code | Pitch Length (mm) | Teeth (n) | Tooth Pitch |
|---|---|---|---|
| **T10-120** | 120 | 12 | 10 mm |
| **T10-800** | 800 | 80 | 10 mm |
| **T10-3000** | 3000 | 300 | 10 mm |

## 4. Complete T10 Size Chart

**Table 5 Complete T10 Synchronous Belt Size Chart — 231 codes, T10-120 to T10-7050**

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T10-120 | 120 | 12 | T10-650 | 650 | 65 | T10-1060 | 1060 | 106 | T10-1550 | 1550 | 155 | T10-2170 | 2170 | 217 | T10-3180 | 3180 | 318 |
| T10-160 | 160 | 16 | T10-660 | 660 | 66 | T10-1080 | 1080 | 108 | T10-1560 | 1560 | 156 | T10-2180 | 2180 | 218 | T10-3200 | 3200 | 320 |
| T10-220 | 220 | 22 | T10-670 | 670 | 67 | T10-1100 | 1100 | 110 | T10-1580 | 1580 | 158 | T10-2200 | 2200 | 220 | T10-3230 | 3230 | 323 |
| T10-260 | 260 | 26 | T10-680 | 680 | 68 | T10-1110 | 1110 | 111 | T10-1600 | 1600 | 160 | T10-2250 | 2250 | 225 | T10-3250 | 3250 | 325 |
| T10-290 | 290 | 29 | T10-690 | 690 | 69 | T10-1120 | 1120 | 112 | T10-1610 | 1610 | 161 | T10-2270 | 2270 | 227 | T10-3300 | 3300 | 330 |
| T10-300 | 300 | 30 | T10-700 | 700 | 70 | T10-1140 | 1140 | 114 | T10-1620 | 1620 | 162 | T10-2300 | 2300 | 230 | T10-3340 | 3340 | 334 |
| T10-310 | 310 | 31 | T10-710 | 710 | 71 | T10-1150 | 1150 | 115 | T10-1630 | 1630 | 163 | T10-2340 | 2340 | 234 | T10-3350 | 3350 | 335 |
| T10-320 | 320 | 32 | T10-720 | 720 | 72 | T10-1160 | 1160 | 116 | T10-1640 | 1640 | 164 | T10-2350 | 2350 | 235 | T10-3460 | 3460 | 346 |
| T10-330 | 330 | 33 | T10-730 | 730 | 73 | T10-1170 | 1170 | 117 | T10-1660 | 1660 | 166 | T10-2360 | 2360 | 236 | T10-3500 | 3500 | 350 |
| T10-340 | 340 | 34 | T10-740 | 740 | 74 | T10-1180 | 1180 | 118 | T10-1690 | 1690 | 169 | T10-2380 | 2380 | 238 | T10-3520 | 3520 | 352 |
| T10-350 | 350 | 35 | T10-750 | 750 | 75 | T10-1190 | 1190 | 119 | T10-1700 | 1700 | 170 | T10-2400 | 2400 | 240 | T10-3600 | 3600 | 360 |
| T10-360 | 360 | 36 | T10-760 | 760 | 76 | T10-1200 | 1200 | 120 | T10-1720 | 1720 | 172 | T10-2410 | 2410 | 241 | T10-3680 | 3680 | 368 |
| T10-370 | 370 | 37 | T10-770 | 770 | 77 | T10-1210 | 1210 | 121 | T10-1750 | 1750 | 175 | T10-2430 | 2430 | 243 | T10-3700 | 3700 | 370 |
| T10-380 | 380 | 38 | T10-780 | 780 | 78 | T10-1220 | 1220 | 122 | T10-1760 | 1760 | 176 | T10-2480 | 2480 | 248 | T10-3750 | 3750 | 375 |
| T10-390 | 390 | 39 | T10-790 | 790 | 79 | T10-1230 | 1230 | 123 | T10-1780 | 1780 | 178 | T10-2500 | 2500 | 250 | T10-3800 | 3800 | 380 |
| T10-400 | 400 | 40 | T10-800 | 800 | 80 | T10-1240 | 1240 | 124 | T10-1800 | 1800 | 180 | T10-2510 | 2510 | 251 | T10-3870 | 3870 | 387 |
| T10-410 | 410 | 41 | T10-810 | 810 | 81 | T10-1250 | 1250 | 125 | T10-1810 | 1810 | 181 | T10-2520 | 2520 | 252 | T10-3900 | 3900 | 390 |
| T10-420 | 420 | 42 | T10-830 | 830 | 83 | T10-1260 | 1260 | 126 | T10-1860 | 1860 | 186 | T10-2540 | 2540 | 254 | T10-3960 | 3960 | 396 |
| T10-440 | 440 | 44 | T10-840 | 840 | 84 | T10-1280 | 1280 | 128 | T10-1880 | 1880 | 188 | T10-2550 | 2550 | 255 | T10-4000 | 4000 | 400 |
| T10-450 | 450 | 45 | T10-850 | 850 | 85 | T10-1300 | 1300 | 130 | T10-1890 | 1890 | 189 | T10-2560 | 2560 | 256 | T10-4040 | 4040 | 404 |
| T10-460 | 460 | 46 | T10-860 | 860 | 86 | T10-1310 | 1310 | 131 | T10-1900 | 1900 | 190 | T10-2590 | 2590 | 259 | T10-4050 | 4050 | 405 |
| T10-470 | 470 | 47 | T10-870 | 870 | 87 | T10-1320 | 1320 | 132 | T10-1910 | 1910 | 191 | T10-2600 | 2600 | 260 | T10-4280 | 4280 | 428 |
| T10-480 | 480 | 48 | T10-880 | 880 | 88 | T10-1330 | 1330 | 133 | T10-1920 | 1920 | 192 | T10-2610 | 2610 | 261 | T10-4400 | 4400 | 440 |
| T10-490 | 490 | 49 | T10-890 | 890 | 89 | T10-1340 | 1340 | 134 | T10-1930 | 1930 | 193 | T10-2640 | 2640 | 264 | T10-4430 | 4430 | 443 |
| T10-500 | 500 | 50 | T10-900 | 900 | 90 | T10-1350 | 1350 | 135 | T10-1940 | 1940 | 194 | T10-2650 | 2650 | 265 | T10-4470 | 4470 | 447 |
| T10-510 | 510 | 51 | T10-910 | 910 | 91 | T10-1370 | 1370 | 137 | T10-1950 | 1950 | 195 | T10-2680 | 2680 | 268 | T10-4650 | 4650 | 465 |
| T10-520 | 520 | 52 | T10-920 | 920 | 92 | T10-1380 | 1380 | 138 | T10-1960 | 1960 | 196 | T10-2700 | 2700 | 270 | T10-4680 | 4680 | 468 |
| T10-530 | 530 | 53 | T10-930 | 930 | 93 | T10-1390 | 1390 | 139 | T10-1980 | 1980 | 198 | T10-2800 | 2800 | 280 | T10-4780 | 4780 | 478 |
| T10-540 | 540 | 54 | T10-940 | 940 | 94 | T10-1400 | 1400 | 140 | T10-2000 | 2000 | 200 | T10-2850 | 2850 | 285 | T10-5060 | 5060 | 506 |
| T10-550 | 550 | 55 | T10-950 | 950 | 95 | T10-1410 | 1410 | 141 | T10-2020 | 2020 | 202 | T10-2880 | 2880 | 288 | T10-5240 | 5240 | 524 |
| T10-560 | 560 | 56 | T10-960 | 960 | 96 | T10-1420 | 1420 | 142 | T10-2040 | 2040 | 204 | T10-2980 | 2980 | 298 | T10-5360 | 5360 | 536 |
| T10-570 | 570 | 57 | T10-970 | 970 | 97 | T10-1440 | 1440 | 144 | T10-2050 | 2050 | 205 | T10-2990 | 2990 | 299 | T10-5670 | 5670 | 567 |
| T10-580 | 580 | 58 | T10-980 | 980 | 98 | T10-1450 | 1450 | 145 | T10-2080 | 2080 | 208 | T10-3000 | 3000 | 300 | T10-6000 | 6000 | 600 |
| T10-590 | 590 | 59 | T10-1000 | 1000 | 100 | T10-1460 | 1460 | 146 | T10-2090 | 2090 | 209 | T10-3040 | 3040 | 304 | T10-6290 | 6290 | 629 |
| T10-600 | 600 | 60 | T10-1010 | 1010 | 101 | T10-1470 | 1470 | 147 | T10-2100 | 2100 | 210 | T10-3050 | 3050 | 305 | T10-6600 | 6600 | 660 |
| T10-610 | 610 | 61 | T10-1020 | 1020 | 102 | T10-1480 | 1480 | 148 | T10-2120 | 2120 | 212 | T10-3100 | 3100 | 310 | T10-6700 | 6700 | 670 |
| T10-620 | 620 | 62 | T10-1030 | 1030 | 103 | T10-1500 | 1500 | 150 | T10-2130 | 2130 | 213 | T10-3160 | 3160 | 316 | T10-7000 | 7000 | 700 |
| T10-630 | 630 | 63 | T10-1040 | 1040 | 104 | T10-1520 | 1520 | 152 | T10-2160 | 2160 | 216 | T10-3170 | 3170 | 317 | T10-7050 | 7050 | 705 |
| T10-640 | 640 | 64 | T10-1050 | 1050 | 105 | T10-1540 | 1540 | 154 | | | | | | | | | |

Every size in the range — **231 belt codes** from **T10-120** to **T10-7050** — is listed above. The number in a T10 belt code is the pitch line length in millimetres: T10-800 is 800 mm, and the tooth count follows as pitch length divided by the 10 mm pitch, so T10-800 has 80 teeth. Codes run from 120 mm to 7050 mm. Differences of less than one step are supplied as custom sizes on request.

> All T10 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 T10 belt of the same code is dimensionally interchangeable with equivalent-profile T10 belts from other mainstream manufacturers.

**Download the T10 Synchronous Belt Specification PDF** from the product page: https://drive-belt.com/timing-belts/t10-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. HNBR compounds are available on request for high-temperature or oil-resistant applications.

> **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

T10 belts drive CNC machines, linear motion systems, automation equipment, packaging machinery and conveyors.

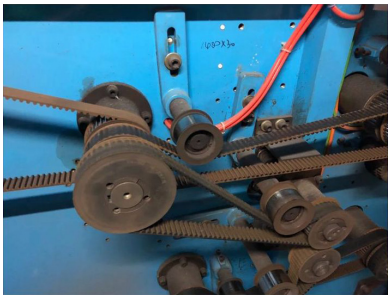


**Figure 3:** A T10 belt driving a CNC machine and linear motion system — the 10 mm pitch suits compact, medium-to-heavy duty precision drives.

## 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
> **T10 Timing Belt page:** https://drive-belt.com/timing-belts/t10-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 type (T10), the pitch line length code and the belt width in millimetres — for example T10-800 at a 30 mm width. We confirm pulley compatibility and quote from stock lengths.