PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

HTD 2M Synchronous Belt — Specification & Complete Size Chart

2 mm Pitch Curvilinear (HTD) Timing Belt · Conforms to ISO 13050 · Shusheng Brand

Shusheng

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CONTENTS

[1]
1. HTD 2M Synchronous Belt Overview

[2]
2. Belt Designation & Code Meaning

[3]
3. Technical Specifications

[4]
4. Complete HTD 2M Size Chart

[5]
5. Materials & Construction

[6]
6. Contact & Ordering Information

HTD 2M Synchronous Belt — Specification, Materials & Complete Size Chart

1. HTD 2M Synchronous Belt Overview

The smallest-pitch member of the HTD curvilinear tooth belt family, for miniature high-speed precision drives.

The HTD 2M synchronous belt (also written 2M timing belt) is a **curvilinear tooth** timing belt with an exact **2 mm pitch**, built for micro-sized, high-speed precision drives where compact size, accurate positioning and quiet running matter. Power is transmitted by tooth-and-groove meshing rather than friction, so a 2M drive runs with no slip, no lubrication and near-zero backlash, and the rounded HTD tooth spreads stress evenly at the root, carrying about 30–40% more torque than a trapezoidal MXL belt of the same size.

A 2M belt delivers up to **98% transmission efficiency**, runs at line speeds up to **50 m/s** or **20,000 RPM**, and holds positioning accuracy as fine as 0.05 mm. Every belt here conforms to **ISO 13050**, the standard for metric-pitch curvilinear (HTD) synchronous belt drives, and is dimensionally interchangeable with equivalent-profile 2M belts from other makers. This document covers the belt code (section 2), the technical specification (section 3), the complete size list from **52-2M** to **3000-2M** (section 4), the materials (section 5) and contact details.



Figure 1: An HTD 2M synchronous belt — 2 mm pitch, 0.75 mm tooth height, 1.36 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 2M profile is defined by four numbers: a **tooth pitch of 2 mm**, a **tooth height of 0.75 mm**, a **belt total thickness of 1.36 mm** and a **curvilinear (HTD) tooth form**. The rounded tooth

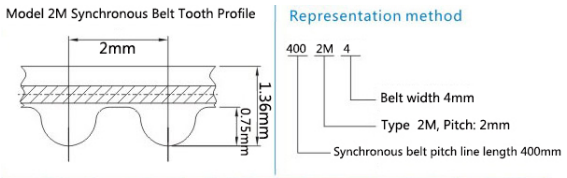


Figure 2: HTD 2M tooth profile and representation method — a 2 mm tooth pitch, a 0.75 mm tooth height and a 1.36 mm belt total thickness, with the code read as pitch line length – type 2M – belt width.

2.2 How the code reads

An HTD 2M belt is designated by its **pitch line length in millimetres** followed by the profile code **2M**, with the width added last: **[Pitch Length] - [Pitch Code] - [Belt Width]**. So **200-2M** is a 2M belt with a **200 mm pitch line length**. Purchase lists, drawings and our product page may write the belt the other way round as **2M-200** or **2M-200-6**; the codes **200-2M and 2M-200 are identical** and both mean a 2M belt with a 200 mm pitch line length. The size chart gives both forms side by side.

The number is the **pitch line length** measured at the cord line, not the outside or inside length. Since the pitch length is always a whole multiple of 2 mm, the tooth count follows directly: teeth = pitch length ÷ 2 mm. So **200-2M** is **200 mm** / 100 teeth, while **52-2M** is 52 mm and **3000-2M** is 3000 mm.

2.3 Belt widths

Four standard widths are stocked, chosen separately from the pitch length to suit the torque transmitted; non-standard widths and custom lengths are supplied on request.

Table 1 HTD 2M standard belt widths

Width (mm)	Typical Drive Duty
4 mm	Ultra-light precision positioning, miniature 3D printers and camera rigs
6 mm	Light-duty precision positioning, small automation and office equipment
9 mm	Medium-duty miniature drives, medical devices and robotics
12 mm	Widest standard width, highest torque capacity of the 2M range

2.4 Marking & interchangeability

Each belt carries its pitch line length and the profile code 2M on the back, so a belt in service can be re-ordered without measuring the drive. A 2M belt must run on a 2M pulley — not on a trapezoidal MXL pulley, whose different tooth form and 2.03 mm pitch will not mesh.

3. Technical Specifications

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

Table 2 HTD 2M Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Metric-pitch curvilinear synchronous belt (HTD 2M series)
Tooth Pitch	2 mm
Tooth Height	0.75 mm
Belt Total Thickness	1.36 mm
Tooth Profile	Curvilinear (HTD)
Minimum Pulley Diameter	10 mm
Standard Widths	4 / 6 / 9 / 12 mm; non-standard widths on request
Standard	Conforms to ISO 13050 (synchronous belt drives, metric pitch, curvilinear tooth profile)

Table 3 HTD 2M Synchronous Belt — Performance & Ordering Data

Property	Specification
Tensile Member	High-strength glass fiber cord; aramid (Kevlar) cord optional
Body Compound	Premium synthetic chloroprene rubber (CR), with hydrogenated nitrile and rubber additives
Tooth Facing	Specially treated high-elasticity Nylon 66 fabric
Transmission Efficiency	Up to 98%
Maximum Linear Speed	50 m/s
Maximum Operating Speed	Up to 20,000 RPM
Positioning Accuracy	Down to 0.05 mm (near-zero backlash)
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	52-2M to 3000-2M — 52 mm to 3000 mm (255 standard models)
Minimum Order Quantity	100 pcs per size (standard); 200 pcs for custom sizes
Indicative Price Range	US$2.11 – US$365.76 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 millimetres**, and the **tooth count is that length divided by the 2 mm pitch**. So 52-2M is 52 mm / 26 teeth, 200-2M is 200 mm / 100 teeth, and 3000-2M is 3000 mm / 1500 teeth.

4. Complete HTD 2M Size Chart

The table below lists every stocked HTD 2M belt with its pitch line length and tooth count, in both accepted code forms. The number in a 2M belt code is the pitch line length in millimetres — so **52-2M and 2M-52 are the same belt** — and the tooth count follows as pitch length divided by the 2 mm pitch, so 200-2M has 100 teeth.

Table 4 Complete HTD 2M Size Chart — 255 standard models, 52-2M to 3000-2M • both code forms are given (52-2M = 2M-52)

Belt Code	Equivalent Code	Pitch Length (mm)	Teeth (n)	Belt Code	Equivalent Code	Pitch Length (mm)	Teeth (n)	Belt Code	Equivalent Code	Pitch Length (mm)	Teeth (n)	Belt Code	Equivalent Code	Pitch Length (mm)	Teeth (n)
52-2M	2M-52	52	26	194-2M	2M-194	194	97	342-2M	2M-342	342	171	634-2M	2M-634	634	317
56-2M	2M-56	56	28	196-2M	2M-196	196	98	344-2M	2M-344	344	172	636-2M	2M-636	636	318
66-2M	2M-66	66	33	198-2M	2M-198	198	99	348-2M	2M-348	348	174	640-2M	2M-640	640	320
70-2M	2M-70	70	35	200-2M	2M-200	200	100	350-2M	2M-350	350	175	646-2M	2M-646	646	323
72-2M	2M-72	72	36	202-2M	2M-202	202	101	354-2M	2M-354	354	177	650-2M	2M-650	650	325
74-2M	2M-74	74	37	204-2M	2M-204	204	102	356-2M	2M-356	356	178	656-2M	2M-656	656	328
76-2M	2M-76	76	38	206-2M	2M-206	206	103	360-2M	2M-360	360	180	660-2M	2M-660	660	330
78-2M	2M-78	78	39	208-2M	2M-208	208	104	362-2M	2M-362	362	181	670-2M	2M-670	670	335
80-2M	2M-80	80	40	210-2M	2M-210	210	105	364-2M	2M-364	364	182	676-2M	2M-676	676	338
82-2M	2M-82	82	41	212-2M	2M-212	212	106	366-2M	2M-366	366	183	686-2M	2M-686	686	343
84-2M	2M-84	84	42	214-2M	2M-214	214	107	368-2M	2M-368	368	184	690-2M	2M-690	690	345
86-2M	2M-86	86	43	216-2M	2M-216	216	108	370-2M	2M-370	370	185	702-2M	2M-702	702	351
90-2M	2M-90	90	45	218-2M	2M-218	218	109	372-2M	2M-372	372	186	710-2M	2M-710	710	355
92-2M	2M-92	92	46	220-2M	2M-220	220	110	376-2M	2M-376	376	188	726-2M	2M-726	726	363
94-2M	2M-94	94	47	224-2M	2M-224	224	112	380-2M	2M-380	380	190	730-2M	2M-730	730	365
96-2M	2M-96	96	48	226-2M	2M-226	226	113	384-2M	2M-384	384	192	744-2M	2M-744	744	372
98-2M	2M-98	98	49	228-2M	2M-228	228	114	386-2M	2M-386	386	193	750-2M	2M-750	750	375
100-2M	2M-100	100	50	230-2M	2M-230	230	115	388-2M	2M-388	388	194	752-2M	2M-752	752	376
102-2M	2M-102	102	51	232-2M	2M-232	232	116	392-2M	2M-392	392	196	760-2M	2M-760	760	380
104-2M	2M-104	104	52	234-2M	2M-234	234	117	394-2M	2M-394	394	197	770-2M	2M-770	770	385
106-2M	2M-106	106	53	236-2M	2M-236	236	118	400-2M	2M-400	400	200	782-2M	2M-782	782	391
108-2M	2M-108	108	54	240-2M	2M-240	240	120	404-2M	2M-404	404	202	800-2M	2M-800	800	400
110-2M	2M-110	110	55	242-2M	2M-242	242	121	406-2M	2M-406	406	203	810-2M	2M-810	810	405
112-2M	2M-112	112	56	244-2M	2M-244	244	122	410-2M	2M-410	410	205	824-2M	2M-824	824	412
114-2M	2M-114	114	57	246-2M	2M-246	246	123	412-2M	2M-412	412	206	840-2M	2M-840	840	420
116-2M	2M-116	116	58	248-2M	2M-248	248	124	420-2M	2M-420	420	210	848-2M	2M-848	848	424
118-2M	2M-118	118	59	250-2M	2M-250	250	125	428-2M	2M-428	428	214	852-2M	2M-852	852	426
120-2M	2M-120	120	60	252-2M	2M-252	252	126	430-2M	2M-430	430	215	872-2M	2M-872	872	436
122-2M	2M-122	122	61	254-2M	2M-254	254	127	436-2M	2M-436	436	218	888-2M	2M-888	888	444
124-2M	2M-124	124	62	256-2M	2M-256	256	128	440-2M	2M-440	440	220	890-2M	2M-890	890	445
126-2M	2M-126	126	63	258-2M	2M-258	258	129	450-2M	2M-450	450	225	900-2M	2M-900	900	450
128-2M	2M-128	128	64	260-2M	2M-260	260	130	460-2M	2M-460	460	230	906-2M	2M-906	906	453
130-2M	2M-130	130	65	262-2M	2M-262	262	131	468-2M	2M-468	468	234	910-2M	2M-910	910	455
132-2M	2M-132	132	66	264-2M	2M-264	264	132	470-2M	2M-470	470	235	928-2M	2M-928	928	464
134-2M	2M-134	134	67	266-2M	2M-266	266	133	476-2M	2M-476	476	238	930-2M	2M-930	930	465
136-2M	2M-136	136	68	268-2M	2M-268	268	134	478-2M	2M-478	478	239	960-2M	2M-960	960	480
138-2M	2M-138	138	69	270-2M	2M-270	270	135	480-2M	2M-480	480	240	976-2M	2M-976	976	488
140-2M	2M-140	140	70	274-2M	2M-274	274	137	486-2M	2M-486	486	243	1000-2M	2M-1000	1000	500
142-2M	2M-142	142	71	276-2M	2M-276	276	138	488-2M	2M-488	488	244	1040-2M	2M-1040	1040	520
144-2M	2M-144	144	72	280-2M	2M-280	280	140	490-2M	2M-490	490	245	1068-2M	2M-1068	1068	534
146-2M	2M-146	146	73	282-2M	2M-282	282	141	492-2M	2M-492	492	246	1100-2M	2M-1100	1100	550
148-2M	2M-148	148	74	286-2M	2M-286	286	143	494-2M	2M-494	494	247	1140-2M	2M-1140	1140	570
150-2M	2M-150	150	75	288-2M	2M-288	288	144	500-2M	2M-500	500	250	1142-2M	2M-1142	1142	571
152-2M	2M-152	152	76	290-2M	2M-290	290	145	506-2M	2M-506	506	253	1150-2M	2M-1150	1150	575
154-2M	2M-154	154	77	292-2M	2M-292	292	146	516-2M	2M-516	516	258	1164-2M	2M-1164	1164	582
156-2M	2M-156	156	78	294-2M	2M-294	294	147	518-2M	2M-518	518	259	1190-2M	2M-1190	1190	595
158-2M	2M-158	158	79	296-2M	2M-296	296	148	520-2M	2M-520	520	260	1200-2M	2M-1200	1200	600
160-2M	2M-160	160	80	298-2M	2M-298	298	149	530-2M	2M-530	530	265	1210-2M	2M-1210	1210	605
162-2M	2M-162	162	81	300-2M	2M-300	300	150	534-2M	2M-534	534	267	1220-2M	2M-1220	1220	610
164-2M	2M-164	164	82	302-2M	2M-302	302	151	550-2M	2M-550	550	275	1250-2M	2M-1250	1250	625
166-2M	2M-166	166	83	304-2M	2M-304	304	152	556-2M	2M-556	556	278	1272-2M	2M-1272	1272	636
168-2M	2M-168	168	84	306-2M	2M-306	306	153	558-2M	2M-558	558	279	1350-2M	2M-1350	1350	675
170-2M	2M-170	170	85	310-2M	2M-310	310	155	560-2M	2M-560	560	280	1444-2M	2M-1444	1444	722
172-2M	2M-172	172	86	312-2M	2M-312	312	156	570-2M	2M-570	570	285	1474-2M	2M-1474	1474	737
174-2M	2M-174	174	87	320-2M	2M-320	320	160	578-2M	2M-578	578	289	1500-2M	2M-1500	1500	750
176-2M	2M-176	176	88	322-2M	2M-322	322	161	582-2M	2M-582	582	291	1508-2M	2M-1508	1508	754
178-2M	2M-178	178	89	324-2M	2M-324	324	162	600-2M	2M-600	600	300	1510-2M	2M-1510	1510	755
180-2M	2M-180	180	90	326-2M	2M-326	326	163	604-2M	2M-604	604	302	1520-2M	2M-1520	1520	760
182-2M	2M-182	182	91	328-2M	2M-328	328	164	606-2M	2M-606	606	303	1524-2M	2M-1524	1524	762
184-2M	2M-184	184	92	330-2M	2M-330	330	165	610-2M	2M-610	610	305	1572-2M	2M-1572	1572	786
186-2M	2M-186	186	93	334-2M	2M-334	334	167	616-2M	2M-616	616	308	2000-2M	2M-2000	2000	1000
188-2M	2M-188	188	94	336-2M	2M-336	336	168	622-2M	2M-622	622	311	2270-2M	2M-2270	2270	1135
190-2M	2M-190	190	95	338-2M	2M-338	338	169	630-2M	2M-630	630	315	3000-2M	2M-3000	3000	1500
192-2M	2M-192	192	96	340-2M	2M-340	340	170	632-2M	2M-632	632	316				

All **255 belt codes** from **52-2M** to **3000-2M** (52–3000 mm) are listed above, each in both code forms — **52-2M and 2M-52 are the same belt** — and intermediate lengths, non-standard

widths and custom sizes are supplied on request. Because every belt conforms to ISO 13050 there are no gaps in the range.

Download the HTD 2M Synchronous Belt Specification PDF from the product page: https://drive-belt.com/timing-belts/2m-timing-belt

5. Materials & Construction

> **Layer 01 — Tensile member**
> High-strength glass fiber cord with very low elongation (aramid / Kevlar optional). It keeps the pitch length stable under load, so the drive holds its indexing accuracy as torque rises.

> **Layer 02 — Body compound**
> Premium synthetic chloroprene rubber (CR) with hydrogenated nitrile and rubber additives. It bonds and protects the cord, transmits load, and resists heat, cold, oil, water, acid, alkali, ozone and flex fatigue.

> **Layer 03 — Tooth facing**
> Specially treated high-elasticity Nylon 66 fabric. Its low friction and high wear resistance protect the tooth profile and keep the drive quiet through millions of cycles.

5.1 Applications

HTD 2M belts drive miniature precision equipment such as 3D printers, medical devices, small robotics, office equipment, CNC machines and consumer electronics.



Figure 3: An HTD 2M belt driving a 3D printer — the 2 mm fine pitch suits miniature precision drives.

6. Contact & Ordering Information

Send the belt code and width in millimetres — e.g. 200-2M at 6 mm or 2M-200 at 6 mm; we confirm stock, pulley compatibility and price, and ship within 15–20 days (MOQ 100 pcs).

Company: Pingxiang Husheng Rubber Products Co.,Ltd • **Brand:** Shusheng
Website: https://drive-belt.com • **HTD 2M Timing Belt page:** https://drive-belt.com/timing-belts/2m-timing-belt
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