PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

HTD 8M Synchronous Belt — Specification & Complete Size Chart

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

Shusheng

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HTD 8M Synchronous Belt — Specification, Materials & Complete Size Chart

1. HTD 8M Synchronous Belt Overview

An 8 mm pitch curvilinear tooth belt for high-torque industrial drives and engine timing.

The HTD 8M synchronous belt (also written 8M timing belt) is a **curvilinear tooth** timing belt with an exact **8 mm pitch** — the heavy-duty member of the HTD family, larger than 3M and 5M. It transmits power by tooth-and-groove meshing rather than friction, so an 8M drive runs with no slip, no speed drift and no lubrication. The rounded HTD tooth spreads stress evenly at the root and therefore carries chain-class torque that a trapezoidal profile of the same width cannot match.

An 8M belt delivers up to **98% transmission efficiency**, runs at line speeds up to **35 m/s** and holds a speed ratio up to **1:10**. Every belt here conforms to **ISO 13050**, the standard for metric-pitch curvilinear (HTD) synchronous belt drives, and is dimensionally interchangeable with equivalent-profile 8M belts from other makers. This document covers the belt code (section 2), the technical specification (section 3), the complete size list from **8M-112** to **8M-6880** (section 4), the materials (section 5) and contact details.

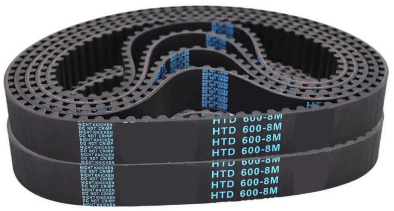


Figure 1: An HTD 8M synchronous belt — 8 mm pitch, 3.38 mm tooth height, 6 mm belt thickness — with the moulded belt code (HTD 600-8M) on the back.

2. Belt Designation & Code Meaning

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

2.1 Profile geometry

The 8M profile is defined by four numbers: a **tooth pitch of 8 mm**, a **tooth height of 3.38 mm**, a **belt total thickness of 6 mm** and a **curvilinear (HTD) tooth form**. The rounded tooth flank meshes progressively with uniform stress distribution and minimal backlash.

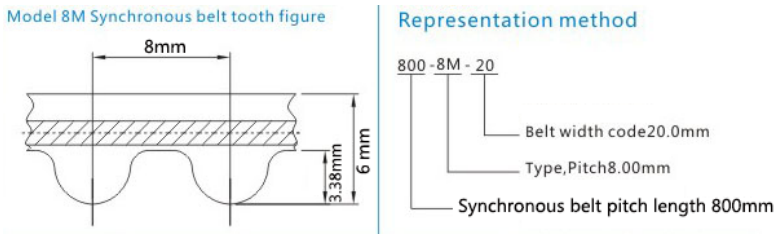


Figure 2: HTD 8M tooth profile and representation method — an 8 mm tooth pitch, a 3.38 mm tooth height and a 6 mm belt total thickness, with the code read as pitch line length – type 8M – belt width.

2.2 How the code reads

An 8M belt is designated by its **pitch line length in millimetres** together with the profile code **8M** and the width: **[Pitch Length] - [Pitch Code] - [Belt Width]**, for example **800-8M-20** is an 8M belt with an **800 mm pitch line length** and a **20 mm width**. Our size list and purchase codes write the same belt as **8M-800**; the codes **8M-800 and 800-8M are identical** and both mean an 8M belt with an 800 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 8 mm, the tooth count follows directly: teeth = pitch length ÷ 8 mm. So **8M-800** is **800 mm** / 100 teeth, while **8M-112** is 112 mm and **8M-6880** is 6880 mm.

2.3 Belt widths

Five standard widths are stocked, chosen separately from the pitch length to suit the torque transmitted; belts up to 400 mm wide and custom lengths are supplied on request.

Table 1 HTD 8M standard belt widths

Width (mm)	Typical Drive Duty
20 mm	Light-to-medium CNC, routers and small automation drives
25 mm	Standard CNC mills and general automation
30 mm	Medium-duty conveyors and packaging machines
50 mm	Heavy CNC and large linear systems
85 mm	Widest standard width, highest torque capacity of the 8M range

2.4 Marking & interchangeability

Each belt carries its pitch line length and the profile code 8M on the back, so a belt in service can be re-ordered without measuring the drive. An 8M belt must run on an 8M (HTD) pulley — not on an S8M or other pulley, whose flatter tooth form is not interchangeable.

3. Technical Specifications

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

Table 2 HTD 8M Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Metric-pitch curvilinear synchronous belt (HTD 8M series)
Tooth Pitch	8 mm
Tooth Height	3.38 mm
Belt Total Thickness	6 mm
Tooth Profile	Curvilinear (HTD)
Standard Widths	20 / 25 / 30 / 50 / 85 mm; up to 400 mm wide on request
Standard	Conforms to ISO 13050 (synchronous belt drives, metric pitch, curvilinear tooth profile)

Table 3 HTD 8M Synchronous Belt — Performance & Ordering Data

Property	Specification
Tensile Member	Imported high-strength glass fiber cord; aramid (Kevlar) cord optional
Body Compound	Premium synthetic chloroprene rubber (CR); HNBR compound optional for high-oil or high-temperature duty
Tooth Facing	Specially treated high-elasticity Nylon 66 fabric
Transmission Efficiency	Up to 98%
Maximum Linear Speed	35 m/s
Speed Ratio	Up to 1:10
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	8M-112 to 8M-6880 — 112 mm to 6880 mm (391 standard models)
Minimum Order Quantity	50 pcs per size (standard); custom sizes on request
Indicative Price Range	US$2.21 – US$350.88 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 8 mm pitch**. So 8M-112 is 112 mm / 14 teeth, 8M-800 is 800 mm / 100 teeth, and 8M-6880 is 6880 mm / 860 teeth.

4. Complete HTD 8M Size Chart

The table below lists every stocked HTD 8M belt with its pitch line length and tooth count, in both accepted code forms. The number in an 8M belt code is the pitch line length in millimetres — so **8M-800 and 800-8M are the same belt** — and the tooth count follows as pitch length divided by the 8 mm pitch.

Table 4 Complete HTD 8M Size Chart — 284 standard models, 8M-112 to 8M-2504 • both code forms are given (8M-112 = 112-8M)

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)
8M-112	112-8M	112	14	8M-760	760-8M	760	95	8M-1328	1328-8M	1328	166	8M-1896	1896-8M	1896	237
8M-184	184-8M	184	23	8M-768	768-8M	768	96	8M-1336	1336-8M	1336	167	8M-1904	1904-8M	1904	238
8M-200	200-8M	200	25	8M-776	776-8M	776	97	8M-1344	1344-8M	1344	168	8M-1912	1912-8M	1912	239
8M-208	208-8M	208	26	8M-784	784-8M	784	98	8M-1352	1352-8M	1352	169	8M-1920	1920-8M	1920	240
8M-216	216-8M	216	27	8M-792	792-8M	792	99	8M-1360	1360-8M	1360	170	8M-1928	1928-8M	1928	241
8M-224	224-8M	224	28	8M-800	800-8M	800	100	8M-1368	1368-8M	1368	171	8M-1936	1936-8M	1936	242
8M-232	232-8M	232	29	8M-808	808-8M	808	101	8M-1376	1376-8M	1376	172	8M-1944	1944-8M	1944	243
8M-248	248-8M	248	31	8M-816	816-8M	816	102	8M-1384	1384-8M	1384	173	8M-1952	1952-8M	1952	244
8M-256	256-8M	256	32	8M-824	824-8M	824	103	8M-1392	1392-8M	1392	174	8M-1960	1960-8M	1960	245
8M-264	264-8M	264	33	8M-832	832-8M	832	104	8M-1400	1400-8M	1400	175	8M-1968	1968-8M	1968	246
8M-272	272-8M	272	34	8M-840	840-8M	840	105	8M-1408	1408-8M	1408	176	8M-1976	1976-8M	1976	247
8M-280	280-8M	280	35	8M-848	848-8M	848	106	8M-1416	1416-8M	1416	177	8M-1984	1984-8M	1984	248
8M-288	288-8M	288	36	8M-856	856-8M	856	107	8M-1424	1424-8M	1424	178	8M-1992	1992-8M	1992	249
8M-296	296-8M	296	37	8M-864	864-8M	864	108	8M-1432	1432-8M	1432	179	8M-2000	2000-8M	2000	250
8M-304	304-8M	304	38	8M-872	872-8M	872	109	8M-1440	1440-8M	1440	180	8M-2008	2008-8M	2008	251
8M-312	312-8M	312	39	8M-880	880-8M	880	110	8M-1448	1448-8M	1448	181	8M-2016	2016-8M	2016	252
8M-320	320-8M	320	40	8M-888	888-8M	888	111	8M-1456	1456-8M	1456	182	8M-2024	2024-8M	2024	253
8M-328	328-8M	328	41	8M-896	896-8M	896	112	8M-1464	1464-8M	1464	183	8M-2032	2032-8M	2032	254
8M-336	336-8M	336	42	8M-904	904-8M	904	113	8M-1472	1472-8M	1472	184	8M-2040	2040-8M	2040	255
8M-344	344-8M	344	43	8M-912	912-8M	912	114	8M-1480	1480-8M	1480	185	8M-2048	2048-8M	2048	256
8M-352	352-8M	352	44	8M-920	920-8M	920	115	8M-1488	1488-8M	1488	186	8M-2056	2056-8M	2056	257
8M-360	360-8M	360	45	8M-928	928-8M	928	116	8M-1496	1496-8M	1496	187	8M-2064	2064-8M	2064	258
8M-368	368-8M	368	46	8M-936	936-8M	936	117	8M-1504	1504-8M	1504	188	8M-2072	2072-8M	2072	259
8M-376	376-8M	376	47	8M-944	944-8M	944	118	8M-1512	1512-8M	1512	189	8M-2080	2080-8M	2080	260
8M-384	384-8M	384	48	8M-952	952-8M	952	119	8M-1520	1520-8M	1520	190	8M-2088	2088-8M	2088	261
8M-392	392-8M	392	49	8M-960	960-8M	960	120	8M-1528	1528-8M	1528	191	8M-2096	2096-8M	2096	262
8M-400	400-8M	400	50	8M-968	968-8M	968	121	8M-1536	1536-8M	1536	192	8M-2104	2104-8M	2104	263
8M-408	408-8M	408	51	8M-976	976-8M	976	122	8M-1544	1544-8M	1544	193	8M-2112	2112-8M	2112	264
8M-416	416-8M	416	52	8M-984	984-8M	984	123	8M-1552	1552-8M	1552	194	8M-2120	2120-8M	2120	265
8M-424	424-8M	424	53	8M-992	992-8M	992	124	8M-1560	1560-8M	1560	195	8M-2136	2136-8M	2136	267
8M-432	432-8M	432	54	8M-1000	1000-8M	1000	125	8M-1568	1568-8M	1568	196	8M-2144	2144-8M	2144	268
8M-440	440-8M	440	55	8M-1008	1008-8M	1008	126	8M-1576	1576-8M	1576	197	8M-2152	2152-8M	2152	269
8M-448	448-8M	448	56	8M-1016	1016-8M	1016	127	8M-1584	1584-8M	1584	198	8M-2160	2160-8M	2160	270
8M-456	456-8M	456	57	8M-1024	1024-8M	1024	128	8M-1592	1592-8M	1592	199	8M-2168	2168-8M	2168	271
8M-464	464-8M	464	58	8M-1032	1032-8M	1032	129	8M-1600	1600-8M	1600	200	8M-2176	2176-8M	2176	272
8M-472	472-8M	472	59	8M-1040	1040-8M	1040	130	8M-1608	1608-8M	1608	201	8M-2184	2184-8M	2184	273
8M-480	480-8M	480	60	8M-1048	1048-8M	1048	131	8M-1616	1616-8M	1616	202	8M-2192	2192-8M	2192	274
8M-488	488-8M	488	61	8M-1056	1056-8M	1056	132	8M-1624	1624-8M	1624	203	8M-2200	2200-8M	2200	275
8M-496	496-8M	496	62	8M-1064	1064-8M	1064	133	8M-1632	1632-8M	1632	204	8M-2208	2208-8M	2208	276
8M-504	504-8M	504	63	8M-1072	1072-8M	1072	134	8M-1640	1640-8M	1640	205	8M-2224	2224-8M	2224	278
8M-512	512-8M	512	64	8M-1080	1080-8M	1080	135	8M-1648	1648-8M	1648	206	8M-2232	2232-8M	2232	279
8M-520	520-8M	520	65	8M-1088	1088-8M	1088	136	8M-1656	1656-8M	1656	207	8M-2240	2240-8M	2240	280
8M-528	528-8M	528	66	8M-1096	1096-8M	1096	137	8M-1664	1664-8M	1664	208	8M-2248	2248-8M	2248	281
8M-536	536-8M	536	67	8M-1104	1104-8M	1104	138	8M-1672	1672-8M	1672	209	8M-2256	2256-8M	2256	282
8M-544	544-8M	544	68	8M-1112	1112-8M	1112	139	8M-1680	1680-8M	1680	210	8M-2272	2272-8M	2272	284
8M-552	552-8M	552	69	8M-1120	1120-8M	1120	140	8M-1688	1688-8M	1688	211	8M-2280	2280-8M	2280	285
8M-560	560-8M	560	70	8M-1128	1128-8M	1128	141	8M-1696	1696-8M	1696	212	8M-2288	2288-8M	2288	286
8M-568	568-8M	568	71	8M-1136	1136-8M	1136	142	8M-1704	1704-8M	1704	213	8M-2296	2296-8M	2296	287
8M-576	576-8M	576	72	8M-1144	1144-8M	1144	143	8M-1712	1712-8M	1712	214	8M-2304	2304-8M	2304	288
8M-584	584-8M	584	73	8M-1152	1152-8M	1152	144	8M-1720	1720-8M	1720	215	8M-2312	2312-8M	2312	289
8M-592	592-8M	592	74	8M-1160	1160-8M	1160	145	8M-1728	1728-8M	1728	216	8M-2320	2320-8M	2320	290
8M-600	600-8M	600	75	8M-1168	1168-8M	1168	146	8M-1736	1736-8M	1736	217	8M-2328	2328-8M	2328	291
8M-608	608-8M	608	76	8M-1176	1176-8M	1176	147	8M-1744	1744-8M	1744	218	8M-2352	2352-8M	2352	294
8M-616	616-8M	616	77	8M-1184	1184-8M	1184	148	8M-1752	1752-8M	1752	219	8M-2360	2360-8M	2360	295
8M-624	624-8M	624	78	8M-1192	1192-8M	1192	149	8M-1760	1760-8M	1760	220	8M-2368	2368-8M	2368	296
8M-632	632-8M	632	79	8M-1200	1200-8M	1200	150	8M-1768	1768-8M	1768	221	8M-2376	2376-8M	2376	297
8M-640	640-8M	640	80	8M-1208	1208-8M	1208	151	8M-1776	1776-8M	1776	222	8M-2384	2384-8M	2384	298
8M-648	648-8M	648	81	8M-1216	1216-8M	1216	152	8M-1784	1784-8M	1784	223	8M-2392	2392-8M	2392	299
8M-656	656-8M	656	82	8M-1224	1224-8M	1224	153	8M-1792	1792-8M	1792	224	8M-2400	2400-8M	2400	300
8M-664	664-8M	664	83	8M-1232	1232-8M	1232	154	8M-1800	1800-8M	1800	225	8M-2408	2408-8M	2408	301
8M-672	672-8M	672	84	8M-1240	1240-8M	1240	155	8M-1808	1808-8M	1808	226	8M-2416	2416-8M	2416	302
8M-680	680-8M	680	85	8M-1248	1248-8M	1248	156	8M-1816	1816-8M	1816	227	8M-2432	2432-8M	2432	304
8M-688	688-8M	688	86	8M-1256	1256-8M	1256	157	8M-1824	1824-8M	1824	228	8M-2440	2440-8M	2440	305
8M-696	696-8M	696	87	8M-1264	1264-8M	1264	158	8M-1832	1832-8M	1832	229	8M-2448	2448-8M	2448	306
8M-704	704-8M	704	88	8M-1272	1272-8M	1272	159	8M-1840	1840-8M	1840	230	8M-2456	2456-8M	2456	307
8M-712	712-8M	712	89	8M-1280	1280-8M	1280	160	8M-1848	1848-8M	1848	231	8M-2464	2464-8M	2464	308
8M-720	720-8M	720	90	8M-1288	1288-8M	1288	161	8M-1856	1856-8M	1856	232	8M-2472	2472-8M	2472	309
8M-728	728-8M	728	91	8M-1296	1296-8M	1296	162	8M-1864	1864-8M	1864	233	8M-2480	2480-8M	2480	310
8M-736	736-8M	736	92	8M-1304	1304-8M	1304	163	8M-1872	1872-8M	1872	234	8M-2488	2488-8M	2488	311
8M-744	744-8M	744	93	8M-1312	1312-8M	1312	164	8M-1880	1880-8M	1880	235	8M-2496	2496-8M	2496	312
8M-752	752-8M	752	94	8M-1320	1320-8M	1320	165	8M-1888	1888-8M	1888	236	8M-2504	2504-8M	2504	313

Table 5 Complete HTD 8M Size Chart — 107 standard models, 8M-2512 to 8M-6880 • both code forms are given (8M-2512 = 2512-8M)

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)
8M-2512	2512-8M	2512	314	8M-2832	2832-8M	2832	354	8M-3200	3200-8M	3200	400	8M-3880	3880-8M	3880	485
8M-2520	2520-8M	2520	315	8M-2840	2840-8M	2840	355	8M-3280	3280-8M	3280	410	8M-3896	3896-8M	3896	487
8M-2536	2536-8M	2536	317	8M-2848	2848-8M	2848	356	8M-3288	3288-8M	3288	411	8M-3944	3944-8M	3944	493
8M-2560	2560-8M	2560	320	8M-2856	2856-8M	2856	357	8M-3360	3360-8M	3360	420	8M-3960	3960-8M	3960	495
8M-2568	2568-8M	2568	321	8M-2872	2872-8M	2872	359	8M-3392	3392-8M	3392	424	8M-4000	4000-8M	4000	500
8M-2576	2576-8M	2576	322	8M-2880	2880-8M	2880	360	8M-3400	3400-8M	3400	425	8M-4200	4200-8M	4200	525
8M-2584	2584-8M	2584	323	8M-2888	2888-8M	2888	361	8M-3408	3408-8M	3408	426	8M-4224	4224-8M	4224	528
8M-2592	2592-8M	2592	324	8M-2904	2904-8M	2904	363	8M-3424	3424-8M	3424	428	8M-4320	4320-8M	4320	540
8M-2600	2600-8M	2600	325	8M-2912	2912-8M	2912	364	8M-3440	3440-8M	3440	430	8M-4352	4352-8M	4352	544
8M-2608	2608-8M	2608	326	8M-2920	2920-8M	2920	365	8M-3448	3448-8M	3448	431	8M-4400	4400-8M	4400	550
8M-2616	2616-8M	2616	327	8M-2928	2928-8M	2928	366	8M-3480	3480-8M	3480	435	8M-4520	4520-8M	4520	565
8M-2624	2624-8M	2624	328	8M-2944	2944-8M	2944	368	8M-3504	3504-8M	3504	438	8M-4656	4656-8M	4656	582
8M-2632	2632-8M	2632	329	8M-2960	2960-8M	2960	370	8M-3600	3600-8M	3600	450	8M-4736	4736-8M	4736	592
8M-2640	2640-8M	2640	330	8M-2984	2984-8M	2984	373	8M-3624	3624-8M	3624	453	8M-4880	4880-8M	4880	610
8M-2648	2648-8M	2648	331	8M-2992	2992-8M	2992	374	8M-3640	3640-8M	3640	455	8M-4896	4896-8M	4896	612
8M-2656	2656-8M	2656	332	8M-3000	3000-8M	3000	375	8M-3664	3664-8M	3664	458	8M-4960	4960-8M	4960	620
8M-2688	2688-8M	2688	336	8M-3008	3008-8M	3008	376	8M-3680	3680-8M	3680	460	8M-5120	5120-8M	5120	640
8M-2696	2696-8M	2696	337	8M-3016	3016-8M	3016	377	8M-3720	3720-8M	3720	465	8M-5416	5416-8M	5416	677
8M-2712	2712-8M	2712	339	8M-3040	3040-8M	3040	380	8M-3728	3728-8M	3728	466	8M-5576	5576-8M	5576	697
8M-2720	2720-8M	2720	340	8M-3048	3048-8M	3048	381	8M-3744	3744-8M	3744	468	8M-5600	5600-8M	5600	700
8M-2736	2736-8M	2736	342	8M-3072	3072-8M	3072	384	8M-3776	3776-8M	3776	472	8M-5760	5760-8M	5760	720
8M-2752	2752-8M	2752	344	8M-3080	3080-8M	3080	385	8M-3784	3784-8M	3784	473	8M-5768	5768-8M	5768	721
8M-2760	2760-8M	2760	345	8M-3088	3088-8M	3088	386	8M-3800	3800-8M	3800	475	8M-5960	5960-8M	5960	745
8M-2768	2768-8M	2768	346	8M-3096	3096-8M	3096	387	8M-3808	3808-8M	3808	476	8M-6600	6600-8M	6600	825
8M-2800	2800-8M	2800	350	8M-3120	3120-8M	3120	390	8M-3824	3824-8M	3824	478	8M-6680	6680-8M	6680	835
8M-2816	2816-8M	2816	352	8M-3152	3152-8M	3152	394	8M-3840	3840-8M	3840	480	8M-6880	6880-8M	6880	860
8M-2824	2824-8M	2824	353	8M-3168	3168-8M	3168	396	8M-3864	3864-8M	3864	483				

All **391** codes from **8M-112** to **8M-6880** are listed above; custom lengths and widths on request. Download the specification PDF from the product page: drive-belt.com/timing-belts/8m-belt.

5. Materials & Construction

Layer 01 — Tensile member

Imported high-strength glass fiber cord with very low elongation (aramid / Kevlar optional), keeping the pitch length stable under heavy load.

Layer 02 — Body compound

Premium synthetic chloroprene rubber (CR), with HNBR compounds available for high-oil or high-temperature duty; bonds and protects the cord and resists heat, cold, oil, water, acid, alkali, ozone and flex fatigue.

Layer 03 — Tooth facing

Specially treated high-elasticity Nylon 66 fabric; low friction and high wear resistance protect the tooth profile and keep the drive quiet.

5.1 Application

HTD 8M belts drive high-torque industrial machinery such as CNC machines, packaging and textile equipment, and are also used as automotive engine timing belts.

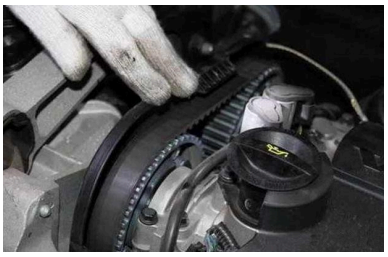


Figure 3: An HTD 8M belt fitted as an automotive engine timing belt — the 8 mm curvilinear pitch carries high torque with exact timing.

6. Contact & Ordering Information

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