PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

HTD 14M Synchronous Belt — Specification & Complete Size Chart

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

Shusheng

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HTD 14M Synchronous Belt — Specification, Materials & Complete Size Chart

1. HTD 14M Synchronous Belt Overview

One of the largest standard pitches in the HTD family — a 14 mm curvilinear belt for heavy industrial drives.

The HTD 14M synchronous belt (also written 14M timing belt) is one of the **largest standard pitches** in the HTD (High Torque Drive) curvilinear family, with a tooth pitch of exactly **14.00 mm**. It transmits power by positive tooth engagement with the pulley, so there is no slip, no speed drift and no need for lubrication. With a deep **6.02 mm** tooth and a **10.00 mm** belt body, the 14M profile is built for heavy industrial synchronous drives where 8M belts reach their load limit.

A 14M belt reaches **98% or more transmission efficiency**, holds a speed ratio up to **1:10** and allows line speeds up to **25 m/s**. Every belt here conforms to **ISO 13050**, the standard for metric-pitch curvilinear (HTD) synchronous belt drives, and is dimensionally interchangeable with equivalent-profile 14M belts from other makers. This document covers the belt code (section 2), the technical specification (section 3), the complete size list from **14M-700** to **14M-6020** (section 4), the materials (section 5) and contact details.



Figure 1: An HTD 14M synchronous belt — 14 mm pitch, 6.02 mm tooth height, 10 mm belt thickness — showing the deep curvilinear tooth form.

2. Belt Designation & Code Meaning

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

2.1 Profile geometry

The 14M profile is defined by four numbers: a **tooth pitch of 14 mm**, a **tooth height of 6.02 mm**, a **belt total thickness of 10 mm** and a **curvilinear (HTD) tooth form**. The rounded tooth

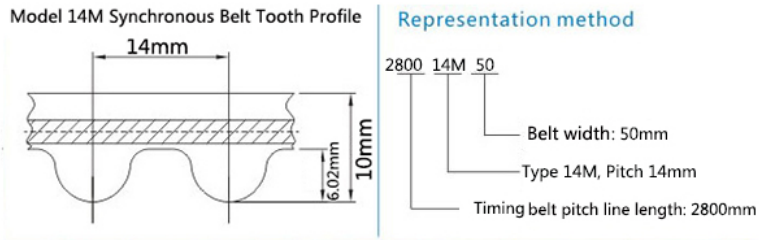


Figure 2: HTD 14M tooth profile and representation method — a 14 mm tooth pitch, a 6.02 mm tooth height and a 10 mm belt total thickness, with the code read as pitch line length – type 14M – belt width.

2.2 How the code reads

A 14M belt is designated by its **pitch line length in millimetres** together with the profile code **14M** and the width: **[Pitch Length] - [Pitch Code] - [Belt Width]**, for example **2800-14M-50** is a 14M belt with a **2800 mm pitch line length** and a **50 mm width**. Our size list and purchase codes write the same belt as **14M-2800**; the codes **14M-2800 and 2800-14M are identical** and both mean a 14M belt with a 2,800 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 14 mm, the tooth count follows directly: teeth = pitch length ÷ 14 mm. So **14M-2800** is **2800 mm** / 200 teeth, while **14M-700** is 700 mm and **14M-6020** is 6020 mm.

2.3 Belt widths

Five standard widths are stocked, chosen separately from the pitch length to suit the torque transmitted; belts up to about 430 mm wide and custom lengths are supplied on request.

Table 1 HTD 14M standard belt widths

Width (mm)	Typical Drive Duty
40 mm	Medium-heavy drives where an 8M belt is not enough
55 mm	General heavy-duty industrial drives, pumps and compressors
85 mm	Heavy conveyors, machine tools and processing equipment
115 mm	Very heavy material handling and large industrial drives
170 mm	Widest standard width, highest torque capacity of the 14M range

2.4 Marking & interchangeability

Each belt carries its pitch line length and the profile code 14M on the back, so a belt in service can be re-ordered without measuring the drive. A 14M belt must run on a 14M (HTD) pulley — not on an S14M or RPP14 pulley, whose tooth geometry differs and 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 14M Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Metric-pitch curvilinear synchronous belt (HTD 14M series)
Tooth Pitch	14 mm
Tooth Height	6.02 mm
Belt Total Thickness	10 mm
Tooth Profile	Curvilinear (HTD)
Standard Widths	40 / 55 / 85 / 115 / 170 mm; up to about 430 mm wide on request
Standard	Conforms to ISO 13050 (synchronous belt drives, metric pitch, curvilinear tooth profile)

Table 3 HTD 14M 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	25 m/s
Speed Ratio	Up to 1:10
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	14M-700 to 14M-6020 — 700 mm to 6020 mm (195 standard models)
Minimum Order Quantity	10 pcs per size (standard); custom sizes on request
Indicative Price Range	US$25.20 – US$921.06 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 14 mm pitch**. So 14M-700 is 700 mm / 50 teeth, 14M-2800 is 2,800 mm / 200 teeth, and 14M-6020 is 6020 mm / 430 teeth.

4. Complete HTD 14M Size Chart

The table below lists every stocked HTD 14M belt with its pitch line length and tooth count, in both accepted code forms. The number in a 14M belt code is the pitch line length in millimetres — so **14M-2800 and 2800-14M are the same belt** — and the tooth count follows as pitch length divided by the 14 mm pitch.

Table 4 Complete HTD 14M Size Chart — 195 standard models, 14M-700 to 14M-6020 • Length is the pitch line length in mm; both code forms are given (14M-700 = 700-14M)

Belt Code	Equiv. Code	Length (mm)	Teeth (n)	Belt Code	Equiv. Code	Length (mm)	Teeth (n)	Belt Code	Equiv. Code	Length (mm)	Teeth (n)	Belt Code	Equiv. Code	Length (mm)	Teeth (n)
14M-700	700-14M	700	50	14M-1386	1386-14M	1386	99	14M-2072	2072-14M	2072	148	14M-2912	2912-14M	2912	208
14M-714	714-14M	714	51	14M-1400	1400-14M	1400	100	14M-2100	2100-14M	2100	150	14M-2940	2940-14M	2940	210
14M-728	728-14M	728	52	14M-1414	1414-14M	1414	101	14M-2114	2114-14M	2114	151	14M-2968	2968-14M	2968	212
14M-742	742-14M	742	53	14M-1428	1428-14M	1428	102	14M-2128	2128-14M	2128	152	14M-2996	2996-14M	2996	214
14M-756	756-14M	756	54	14M-1442	1442-14M	1442	103	14M-2142	2142-14M	2142	153	14M-3010	3010-14M	3010	215
14M-770	770-14M	770	55	14M-1456	1456-14M	1456	104	14M-2156	2156-14M	2156	154	14M-3038	3038-14M	3038	217
14M-784	784-14M	784	56	14M-1470	1470-14M	1470	105	14M-2170	2170-14M	2170	155	14M-3052	3052-14M	3052	218
14M-798	798-14M	798	57	14M-1484	1484-14M	1484	106	14M-2184	2184-14M	2184	156	14M-3108	3108-14M	3108	222
14M-812	812-14M	812	58	14M-1498	1498-14M	1498	107	14M-2198	2198-14M	2198	157	14M-3136	3136-14M	3136	224
14M-826	826-14M	826	59	14M-1512	1512-14M	1512	108	14M-2212	2212-14M	2212	158	14M-3150	3150-14M	3150	225
14M-840	840-14M	840	60	14M-1526	1526-14M	1526	109	14M-2226	2226-14M	2226	159	14M-3192	3192-14M	3192	228
14M-854	854-14M	854	61	14M-1540	1540-14M	1540	110	14M-2240	2240-14M	2240	160	14M-3220	3220-14M	3220	230
14M-868	868-14M	868	62	14M-1554	1554-14M	1554	111	14M-2254	2254-14M	2254	161	14M-3248	3248-14M	3248	232
14M-882	882-14M	882	63	14M-1568	1568-14M	1568	112	14M-2268	2268-14M	2268	162	14M-3304	3304-14M	3304	236
14M-896	896-14M	896	64	14M-1582	1582-14M	1582	113	14M-2282	2282-14M	2282	163	14M-3318	3318-14M	3318	237
14M-910	910-14M	910	65	14M-1596	1596-14M	1596	114	14M-2296	2296-14M	2296	164	14M-3332	3332-14M	3332	238
14M-924	924-14M	924	66	14M-1610	1610-14M	1610	115	14M-2310	2310-14M	2310	165	14M-3346	3346-14M	3346	239
14M-938	938-14M	938	67	14M-1624	1624-14M	1624	116	14M-2324	2324-14M	2324	166	14M-3360	3360-14M	3360	240
14M-952	952-14M	952	68	14M-1638	1638-14M	1638	117	14M-2338	2338-14M	2338	167	14M-3374	3374-14M	3374	241
14M-966	966-14M	966	69	14M-1652	1652-14M	1652	118	14M-2352	2352-14M	2352	168	14M-3430	3430-14M	3430	245
14M-980	980-14M	980	70	14M-1666	1666-14M	1666	119	14M-2380	2380-14M	2380	170	14M-3486	3486-14M	3486	249
14M-994	994-14M	994	71	14M-1680	1680-14M	1680	120	14M-2394	2394-14M	2394	171	14M-3500	3500-14M	3500	250
14M-1008	1008-14M	1008	72	14M-1694	1694-14M	1694	121	14M-2408	2408-14M	2408	172	14M-3556	3556-14M	3556	254
14M-1022	1022-14M	1022	73	14M-1708	1708-14M	1708	122	14M-2422	2422-14M	2422	173	14M-3570	3570-14M	3570	255
14M-1036	1036-14M	1036	74	14M-1722	1722-14M	1722	123	14M-2450	2450-14M	2450	175	14M-3654	3654-14M	3654	261
14M-1050	1050-14M	1050	75	14M-1736	1736-14M	1736	124	14M-2492	2492-14M	2492	178	14M-3668	3668-14M	3668	262
14M-1064	1064-14M	1064	76	14M-1750	1750-14M	1750	125	14M-2506	2506-14M	2506	179	14M-3710	3710-14M	3710	265
14M-1078	1078-14M	1078	77	14M-1764	1764-14M	1764	126	14M-2520	2520-14M	2520	180	14M-3780	3780-14M	3780	270
14M-1092	1092-14M	1092	78	14M-1778	1778-14M	1778	127	14M-2534	2534-14M	2534	181	14M-3850	3850-14M	3850	275
14M-1106	1106-14M	1106	79	14M-1792	1792-14M	1792	128	14M-2548	2548-14M	2548	182	14M-3920	3920-14M	3920	280
14M-1120	1120-14M	1120	80	14M-1806	1806-14M	1806	129	14M-2562	2562-14M	2562	183	14M-4004	4004-14M	4004	286
14M-1134	1134-14M	1134	81	14M-1820	1820-14M	1820	130	14M-2576	2576-14M	2576	184	14M-4060	4060-14M	4060	290
14M-1148	1148-14M	1148	82	14M-1834	1834-14M	1834	131	14M-2590	2590-14M	2590	185	14M-4102	4102-14M	4102	293
14M-1162	1162-14M	1162	83	14M-1848	1848-14M	1848	132	14M-2604	2604-14M	2604	186	14M-4158	4158-14M	4158	297
14M-1176	1176-14M	1176	84	14M-1862	1862-14M	1862	133	14M-2618	2618-14M	2618	187	14M-4256	4256-14M	4256	304
14M-1190	1190-14M	1190	85	14M-1876	1876-14M	1876	134	14M-2632	2632-14M	2632	188	14M-4284	4284-14M	4284	306
14M-1204	1204-14M	1204	86	14M-1890	1890-14M	1890	135	14M-2660	2660-14M	2660	190	14M-4326	4326-14M	4326	309
14M-1218	1218-14M	1218	87	14M-1904	1904-14M	1904	136	14M-2688	2688-14M	2688	192	14M-4564	4564-14M	4564	326
14M-1232	1232-14M	1232	88	14M-1918	1918-14M	1918	137	14M-2702	2702-14M	2702	193	14M-4578	4578-14M	4578	327
14M-1246	1246-14M	1246	89	14M-1932	1932-14M	1932	138	14M-2716	2716-14M	2716	194	14M-4956	4956-14M	4956	354
14M-1260	1260-14M	1260	90	14M-1946	1946-14M	1946	139	14M-2730	2730-14M	2730	195	14M-5040	5040-14M	5040	360
14M-1274	1274-14M	1274	91	14M-1960	1960-14M	1960	140	14M-2744	2744-14M	2744	196	14M-5152	5152-14M	5152	368
14M-1288	1288-14M	1288	92	14M-1974	1974-14M	1974	141	14M-2758	2758-14M	2758	197	14M-5320	5320-14M	5320	380
14M-1302	1302-14M	1302	93	14M-1988	1988-14M	1988	142	14M-2772	2772-14M	2772	198	14M-5600	5600-14M	5600	400
14M-1316	1316-14M	1316	94	14M-2002	2002-14M	2002	143	14M-2800	2800-14M	2800	200	14M-5740	5740-14M	5740	410
14M-1330	1330-14M	1330	95	14M-2016	2016-14M	2016	144	14M-2828	2828-14M	2828	202	14M-5908	5908-14M	5908	422
14M-1344	1344-14M	1344	96	14M-2030	2030-14M	2030	145	14M-2856	2856-14M	2856	204	14M-5936	5936-14M	5936	424
14M-1358	1358-14M	1358	97	14M-2044	2044-14M	2044	146	14M-2870	2870-14M	2870	205	14M-6020	6020-14M	6020	430
14M-1372	1372-14M	1372	98	14M-2058	2058-14M	2058	147	14M-2884	2884-14M	2884	206				

All **195** codes from **14M-700** to **14M-6020** are listed above; custom lengths and widths on request. Download the specification PDF from the product page: drive-belt.com/timing-belts/14m-timing-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 deep tooth profile and keep the drive quiet.

5.1 Application

HTD 14M belts drive the heaviest industrial machinery — crushers, machine tools, injection moulding machines, large conveyors, compressors and fans, as well as steel and processing lines.

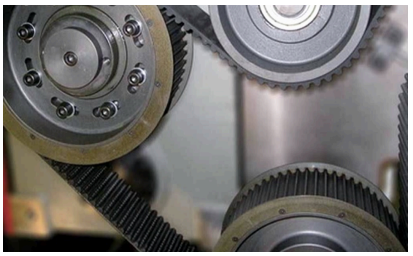


Figure 3: An HTD 14M belt on a heavy-duty multi-pulley industrial drive — the 14 mm curvilinear pitch carries chain-class torque with exact timing.

6. Contact & Ordering Information

Company: Pingxiang Husheng Rubber Products Co.,Ltd • **Brand:** Shusheng
Website: https://drive-belt.com • **HTD 14M Timing Belt page:** https://drive-belt.com/timing-belts/14m-timing-belt
Email: panhusheng@zohomail.cn • **Tel / WhatsApp:** +86 151 0799 3145
Address: No. 132 Xihuan Road, Anyuan District, Pingxiang City, Jiangxi Province, China