PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

S8M STD/STS Synchronous Belt — Specification & Complete Size Chart

8 mm Pitch STD/STS Modified Curvilinear Timing Belt · Conforms to ISO 13050 · Shusheng Brand

Shusheng

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S8M STD/STS Synchronous Belt — Specification, Materials & Complete Size Chart

1. S8M STD Synchronous Belt Overview

An 8 mm pitch STD/STS modified curvilinear tooth belt for high-speed, medium-to-heavy precision drives in CNC, automation and industrial machinery.

The S8M synchronous belt (also written S8M STD belt or STS belt) is the **8 mm pitch** member of the STD / STS (Super Torque Drive) belt family. It uses a **modified curvilinear (STS/STD) tooth** with a flat tooth top and deep root radii, and transmits power by tooth-and-groove meshing rather than friction, so an S8M drive runs with no slip, no speed drift and no lubrication. The wider flank and relieved root spread the load and cut stress concentration, so an S8M belt carries more torque, resists ratcheting better under shock loads and runs more quietly than a same-pitch trapezoidal belt.

An S8M 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 is manufactured to the STD/STS 8 mm profile and conforms to **ISO 13050**, so it is dimensionally interchangeable with equivalent-profile S8M (STD/STS) belts from other mainstream manufacturers. This document covers the belt code (section 2), the technical specification (section 3), the complete size list from **S8M-280** to **S8M-6640** (section 4), the materials (section 5) and contact details.



Figure 1: An S8M STD/STS synchronous belt — 8 mm pitch, 3.05 mm tooth height, 5.30 mm belt thickness — with the moulded belt code (STS 424-S8M) 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 S8M profile is fixed by four numbers: a **tooth pitch of 8 mm**, a **tooth height of about 3.05 mm**, a **belt total thickness of about 5.30 mm** and a **modified curvilinear (STS/STD) flat-top**

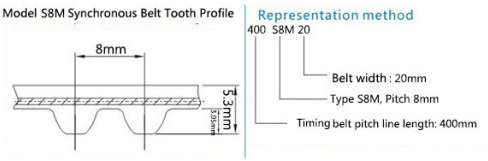


Figure 2: S8M tooth profile and representation method — an 8 mm tooth pitch, about a 3.05 mm tooth height and about a 5.30 mm belt total thickness, with the code read as pitch line length – type S8M – belt width.

2.2 How the code reads

An S8M belt is designated by its **pitch line length in millimetres** with the profile code **S8M** and the width: [**Pitch Length**] - [**Pitch Code**] - [**Belt Width**]. So **1000-S8M-30** is an S8M belt with a **1000 mm pitch line length** and a **30 mm width**. Our size list writes the same belt as **S8M-1000**; the codes **S8M-1000 and 1000-S8M are identical**, and 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 **S8M-1000** is **1000 mm** / 125 teeth, while **S8M-280** is 280 mm and **S8M-6640** is 6640 mm.

2.3 Belt widths

Six standard widths are stocked; non-standard widths and custom lengths on request.

Table 1 S8M STD standard belt widths

Width (mm)	Typical Drive Duty	Width (mm)	Typical Drive Duty
15 mm	Light-duty high-speed positioning and office equipment drives	30 mm	Higher-torque drives on CNC equipment and machine tools
20 mm	General-purpose drives on printing, packaging and textile machinery	50 mm	Heavy-duty drives on industrial machinery and large conveyors
25 mm	Medium-torque drives on conveyors and automated production lines	85 mm	Widest standard width, highest torque capacity of the S8M range

2.4 Marking & interchangeability

S8M (STD/STS) shares its 8 mm pitch with HTD 8M and RPP8, but the tooth geometry and pulleys differ, so the types are **not interchangeable**. Each belt carries its pitch length and

3. Technical Specifications

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

Table 2 S8M STD Synchronous Belt — Profile & Dimensions

Property	Specification
Profile / System	Metric-pitch synchronous belt, STD / STS profile (S8M series)
Tooth Pitch	8 mm
Tooth Height	~3.05 mm
Belt Total Thickness	~5.30 mm
Tooth Profile	Modified curvilinear, flat tooth top with deep root radii (STD / STS)
Standard Widths	15 / 20 / 25 / 30 / 50 / 85 mm; non-standard widths on request
Standard	Conforms to ISO 13050 (synchronous belt drives, metric pitch, curvilinear tooth profile)

Table 3 S8M STD Synchronous Belt — Performance & Ordering Data

Property	Specification
Tensile Member	High-strength glass fiber cord with very low elongation
Body Compound	Premium synthetic chloroprene rubber (CR), blended with rubber additives
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 (multi-shaft drives supported)
Operating Temperature	−30 °C to +90 °C
Pitch Length Range	S8M-280 to S8M-6640 — 280 mm to 6640 mm (260 standard models)
Minimum Order Quantity	50 pcs per size (standard); custom sizes on request
Indicative Price Range	US$2.52 – US$338.64 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 S8M-280 is 280 mm / 35 teeth, S8M-1000 is 1000 mm / 125 teeth, and S8M-6640 is 6640 mm / 830 teeth.

4. Complete S8M Size Chart

The table below lists every stocked S8M STD belt with its pitch line length and tooth count, in both accepted code forms. The number in an S8M belt code is the pitch line length in millimetres — so **S8M-1000 and 1000-S8M are the same belt** — and the tooth count follows as pitch length divided by the 8 mm pitch.

Table 4 Complete S8M STD/STS Size Chart — 260 models, S8M-280 to S8M-6640

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)
S8M-280	280-S8M	280	35	S8M-880	880-S8M	880	110	S8M-1424	1424-S8M	1424	178	S8M-2200	2200-S8M	2200	275
S8M-288	288-S8M	288	36	S8M-888	888-S8M	888	111	S8M-1432	1432-S8M	1432	179	S8M-2240	2240-S8M	2240	280
S8M-320	320-S8M	320	40	S8M-896	896-S8M	896	112	S8M-1440	1440-S8M	1440	180	S8M-2248	2248-S8M	2248	281
S8M-352	352-S8M	352	44	S8M-904	904-S8M	904	113	S8M-1456	1456-S8M	1456	182	S8M-2256	2256-S8M	2256	282
S8M-376	376-S8M	376	47	S8M-912	912-S8M	912	114	S8M-1464	1464-S8M	1464	183	S8M-2264	2264-S8M	2264	283
S8M-384	384-S8M	384	48	S8M-920	920-S8M	920	115	S8M-1480	1480-S8M	1480	185	S8M-2272	2272-S8M	2272	284
S8M-392	392-S8M	392	49	S8M-928	928-S8M	928	116	S8M-1488	1488-S8M	1488	186	S8M-2304	2304-S8M	2304	288
S8M-400	400-S8M	400	50	S8M-936	936-S8M	936	117	S8M-1504	1504-S8M	1504	188	S8M-2368	2368-S8M	2368	296
S8M-408	408-S8M	408	51	S8M-944	944-S8M	944	118	S8M-1512	1512-S8M	1512	189	S8M-2400	2400-S8M	2400	300
S8M-424	424-S8M	424	53	S8M-952	952-S8M	952	119	S8M-1520	1520-S8M	1520	190	S8M-2432	2432-S8M	2432	304
S8M-432	432-S8M	432	54	S8M-960	960-S8M	960	120	S8M-1528	1528-S8M	1528	191	S8M-2480	2480-S8M	2480	310
S8M-440	440-S8M	440	55	S8M-968	968-S8M	968	121	S8M-1536	1536-S8M	1536	192	S8M-2496	2496-S8M	2496	312
S8M-448	448-S8M	448	56	S8M-976	976-S8M	976	122	S8M-1544	1544-S8M	1544	193	S8M-2504	2504-S8M	2504	313
S8M-456	456-S8M	456	57	S8M-984	984-S8M	984	123	S8M-1552	1552-S8M	1552	194	S8M-2512	2512-S8M	2512	314
S8M-464	464-S8M	464	58	S8M-992	992-S8M	992	124	S8M-1560	1560-S8M	1560	195	S8M-2520	2520-S8M	2520	315
S8M-472	472-S8M	472	59	S8M-1000	1000-S8M	1000	125	S8M-1568	1568-S8M	1568	196	S8M-2536	2536-S8M	2536	317
S8M-480	480-S8M	480	60	S8M-1008	1008-S8M	1008	126	S8M-1576	1576-S8M	1576	197	S8M-2560	2560-S8M	2560	320
S8M-488	488-S8M	488	61	S8M-1016	1016-S8M	1016	127	S8M-1584	1584-S8M	1584	198	S8M-2584	2584-S8M	2584	323
S8M-496	496-S8M	496	62	S8M-1024	1024-S8M	1024	128	S8M-1592	1592-S8M	1592	199	S8M-2600	2600-S8M	2600	325
S8M-504	504-S8M	504	63	S8M-1032	1032-S8M	1032	129	S8M-1600	1600-S8M	1600	200	S8M-2632	2632-S8M	2632	329
S8M-512	512-S8M	512	64	S8M-1040	1040-S8M	1040	130	S8M-1608	1608-S8M	1608	201	S8M-2640	2640-S8M	2640	330
S8M-520	520-S8M	520	65	S8M-1056	1056-S8M	1056	132	S8M-1624	1624-S8M	1624	203	S8M-2680	2680-S8M	2680	335
S8M-528	528-S8M	528	66	S8M-1064	1064-S8M	1064	133	S8M-1632	1632-S8M	1632	204	S8M-2720	2720-S8M	2720	340
S8M-536	536-S8M	536	67	S8M-1072	1072-S8M	1072	134	S8M-1640	1640-S8M	1640	205	S8M-2800	2800-S8M	2800	350
S8M-544	544-S8M	544	68	S8M-1080	1080-S8M	1080	135	S8M-1648	1648-S8M	1648	206	S8M-2832	2832-S8M	2832	354
S8M-560	560-S8M	560	70	S8M-1096	1096-S8M	1096	137	S8M-1656	1656-S8M	1656	207	S8M-2848	2848-S8M	2848	356
S8M-568	568-S8M	568	71	S8M-1104	1104-S8M	1104	138	S8M-1672	1672-S8M	1672	209	S8M-2864	2864-S8M	2864	358
S8M-576	576-S8M	576	72	S8M-1112	1112-S8M	1112	139	S8M-1680	1680-S8M	1680	210	S8M-2880	2880-S8M	2880	360
S8M-584	584-S8M	584	73	S8M-1120	1120-S8M	1120	140	S8M-1688	1688-S8M	1688	211	S8M-2920	2920-S8M	2920	365
S8M-592	592-S8M	592	74	S8M-1128	1128-S8M	1128	141	S8M-1696	1696-S8M	1696	212	S8M-2960	2960-S8M	2960	370
S8M-600	600-S8M	600	75	S8M-1136	1136-S8M	1136	142	S8M-1704	1704-S8M	1704	213	S8M-2992	2992-S8M	2992	374
S8M-608	608-S8M	608	76	S8M-1144	1144-S8M	1144	143	S8M-1720	1720-S8M	1720	215	S8M-3000	3000-S8M	3000	375
S8M-616	616-S8M	616	77	S8M-1152	1152-S8M	1152	144	S8M-1728	1728-S8M	1728	216	S8M-3024	3024-S8M	3024	378
S8M-624	624-S8M	624	78	S8M-1160	1160-S8M	1160	145	S8M-1760	1760-S8M	1760	220	S8M-3048	3048-S8M	3048	381
S8M-632	632-S8M	632	79	S8M-1168	1168-S8M	1168	146	S8M-1776	1776-S8M	1776	222	S8M-3088	3088-S8M	3088	386
S8M-640	640-S8M	640	80	S8M-1176	1176-S8M	1176	147	S8M-1784	1784-S8M	1784	223	S8M-3200	3200-S8M	3200	400
S8M-648	648-S8M	648	81	S8M-1184	1184-S8M	1184	148	S8M-1792	1792-S8M	1792	224	S8M-3264	3264-S8M	3264	408
S8M-656	656-S8M	656	82	S8M-1192	1192-S8M	1192	149	S8M-1800	1800-S8M	1800	225	S8M-3280	3280-S8M	3280	410
S8M-664	664-S8M	664	83	S8M-1200	1200-S8M	1200	150	S8M-1808	1808-S8M	1808	226	S8M-3344	3344-S8M	3344	418
S8M-672	672-S8M	672	84	S8M-1208	1208-S8M	1208	151	S8M-1816	1816-S8M	1816	227	S8M-3400	3400-S8M	3400	425
S8M-680	680-S8M	680	85	S8M-1216	1216-S8M	1216	152	S8M-1824	1824-S8M	1824	228	S8M-3520	3520-S8M	3520	440
S8M-688	688-S8M	688	86	S8M-1224	1224-S8M	1224	153	S8M-1832	1832-S8M	1832	229	S8M-3600	3600-S8M	3600	450
S8M-696	696-S8M	696	87	S8M-1232	1232-S8M	1232	154	S8M-1840	1840-S8M	1840	230	S8M-3648	3648-S8M	3648	456
S8M-704	704-S8M	704	88	S8M-1240	1240-S8M	1240	155	S8M-1880	1880-S8M	1880	235	S8M-3680	3680-S8M	3680	460
S8M-712	712-S8M	712	89	S8M-1248	1248-S8M	1248	156	S8M-1888	1888-S8M	1888	236	S8M-3720	3720-S8M	3720	465
S8M-720	720-S8M	720	90	S8M-1256	1256-S8M	1256	157	S8M-1896	1896-S8M	1896	237	S8M-3904	3904-S8M	3904	488
S8M-728	728-S8M	728	91	S8M-1264	1264-S8M	1264	158	S8M-1904	1904-S8M	1904	238	S8M-4000	4000-S8M	4000	500
S8M-736	736-S8M	736	92	S8M-1272	1272-S8M	1272	159	S8M-1912	1912-S8M	1912	239	S8M-4064	4064-S8M	4064	508
S8M-744	744-S8M	744	93	S8M-1280	1280-S8M	1280	160	S8M-1920	1920-S8M	1920	240	S8M-4320	4320-S8M	4320	540
S8M-752	752-S8M	752	94	S8M-1288	1288-S8M	1288	161	S8M-1936	1936-S8M	1936	242	S8M-4400	4400-S8M	4400	550
S8M-760	760-S8M	760	95	S8M-1296	1296-S8M	1296	162	S8M-1952	1952-S8M	1952	244	S8M-4480	4480-S8M	4480	560
S8M-768	768-S8M	768	96	S8M-1304	1304-S8M	1304	163	S8M-1960	1960-S8M	1960	245	S8M-4680	4680-S8M	4680	585
S8M-776	776-S8M	776	97	S8M-1312	1312-S8M	1312	164	S8M-2000	2000-S8M	2000	250	S8M-4880	4880-S8M	4880	610
S8M-784	784-S8M	784	98	S8M-1320	1320-S8M	1320	165	S8M-2016	2016-S8M	2016	252	S8M-4936	4936-S8M	4936	617
S8M-792	792-S8M	792	99	S8M-1328	1328-S8M	1328	166	S8M-2024	2024-S8M	2024	253	S8M-5080	5080-S8M	5080	635
S8M-800	800-S8M	800	100	S8M-1336	1336-S8M	1336	167	S8M-2032	2032-S8M	2032	254	S8M-5104	5104-S8M	5104	638
S8M-808	808-S8M	808	101	S8M-1344	1344-S8M	1344	168	S8M-2040	2040-S8M	2040	255	S8M-5264	5264-S8M	5264	658
S8M-816	816-S8M	816	102	S8M-1352	1352-S8M	1352	169	S8M-2048	2048-S8M	2048	256	S8M-5320	5320-S8M	5320	665
S8M-824	824-S8M	824	103	S8M-1360	1360-S8M	1360	170	S8M-2056	2056-S8M	2056	257	S8M-5352	5352-S8M	5352	669
S8M-832	832-S8M	832	104	S8M-1368	1368-S8M	1368	171	S8M-2080	2080-S8M	2080	260	S8M-5600	5600-S8M	5600	700
S8M-840	840-S8M	840	105	S8M-1376	1376-S8M	1376	172	S8M-2104	2104-S8M	2104	263	S8M-5680	5680-S8M	5680	710
S8M-848	848-S8M	848	106	S8M-1384	1384-S8M	1384	173	S8M-2120	2120-S8M	2120	265	S8M-5696	5696-S8M	5696	712
S8M-856	856-S8M	856	107	S8M-1392	1392-S8M	1392	174	S8M-2136	2136-S8M	2136	267	S8M-5800	5800-S8M	5800	725
S8M-864	864-S8M	864	108	S8M-1400	1400-S8M	1400	175	S8M-2160	2160-S8M	2160	270	S8M-5976	5976-S8M	5976	747
S8M-872	872-S8M	872	109	S8M-1408	1408-S8M	1408	176	S8M-2168	2168-S8M	2168	271	S8M-6640	6640-S8M	6640	830

All **260** codes from **S8M-280** to **S8M-6640** are listed above; custom lengths and widths on request. Download the specification PDF from the product page: drive-belt.com/timing-belts/s8m-timing-belt.

5. Materials, Construction & Application

> **Layer 01 — Tensile member**
> High-strength glass fiber cord carries the full tensile load with very low elongation, keeping the pitch length stable under load.

> **Layer 02 — Body compound**
> Premium synthetic chloroprene rubber (CR) blended with additives; 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 preserve the tooth form and keep the drive quiet.

5.1 Application

S8M STD belts drive high-speed precision equipment such as CNC machines, automated production lines, conveyors, packaging and textile machinery, printers, copiers and servo positioning units.



Figure 3: An S8M STD timing belt on a conveyor drive — positive tooth engagement keeps the line speed exact, with no slip and no lubrication.

6. Contact & Ordering Information

Company: Pingxiang Husheng Rubber Products Co.,Ltd • **Brand:** Shusheng
Website: https://drive-belt.com • **S8M Belt page:** https://drive-belt.com/timing-belts/s8m-timing-belt
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