

NEW STANDARD



TSUBAKI SYNCHRONOUS BELTS
PX BELTS RC Type



Visualization of Lifespan

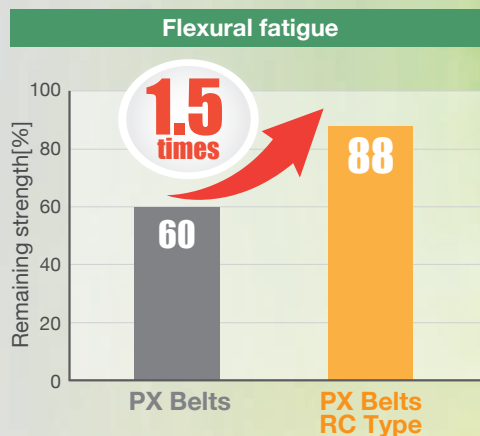
With the change of the facing fabric from black to beige, wear has become more visible, making it easier to see the tooth lifespan.



Lifespan

Extended Lifespan

Due to increased flexural fatigue resistance, longer lifespan can be expected with a multi-axis layout.*¹



Flexural Resistance

1.5 Times^{※3}

reduction of
10%^{※3}

reduction of more than
60%^{※3}

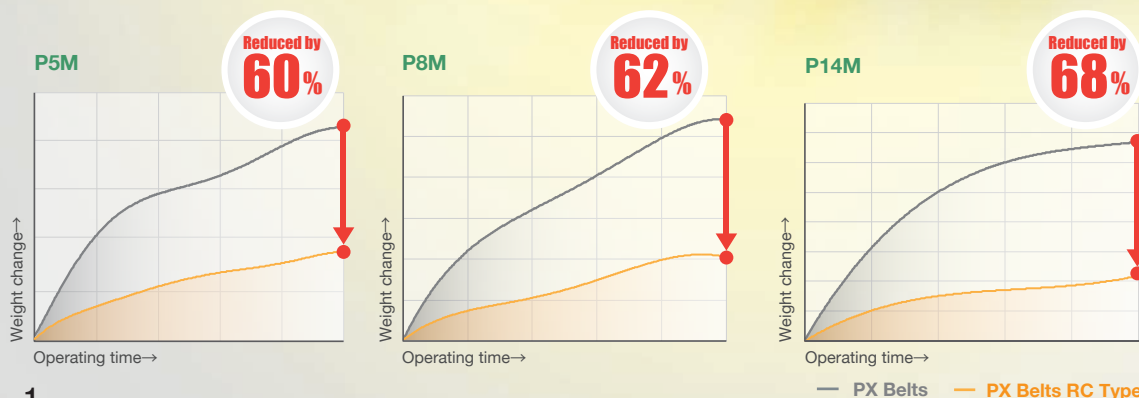
Reduction of Mounting Axial Load

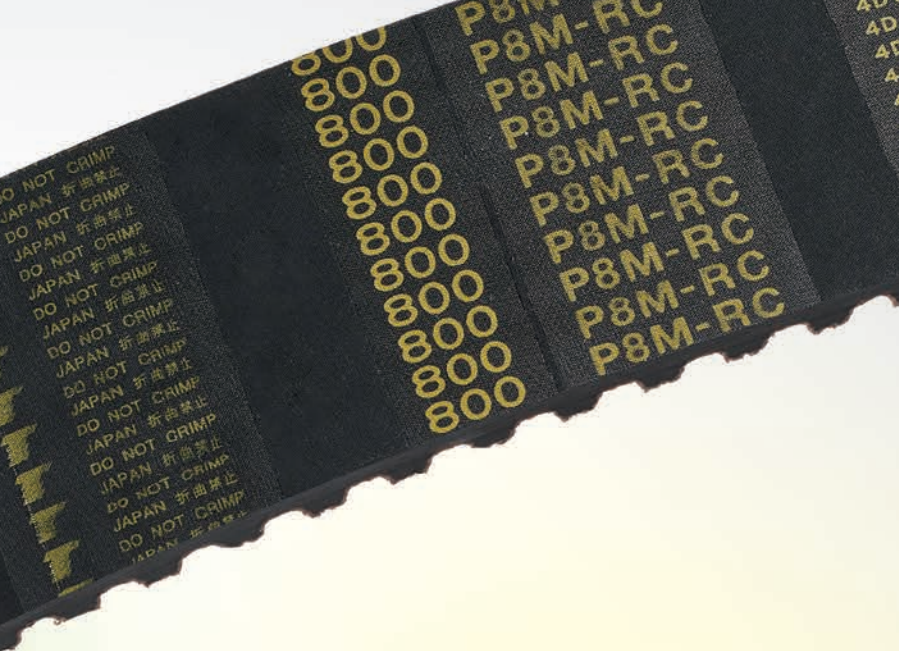
The mounting tension has decreased, resulting in a reduction of the mounting axial load.*¹

Clean

Changing the facing fabric processing reduces the wear debris, allowing for cleaner transmission.

Weight change





Endless Belts

TSUBAKI PX Belt RC Type is based on the PX belt which has a rational arc tooth profile derived from the precise meshing theory with improved component materials. It has up-graded into a clean and eco-friendly synchronous belt.



Open-Ended Belts

The open-ended belt also has up-graded. Its length can be specified in three patterns.

Specify the number of teeth

You can specify the number of belt tooth. Perfect for those seeking a just-right fit.

Specify the length in meters/Fraction

You can specify in increments of 0.1 meters. Ideal for those who want room for on-site adjustments.

Specify in standard lengths (Unit)

For those who only want to use the required length when needed, standard lengths are recommended.



reduction of more than

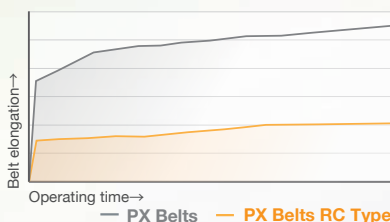
20%

※3

Reduction of operational elongation

Reduced elongation allows less frequent belt adjustment.※2

Belt elongation amount



30%

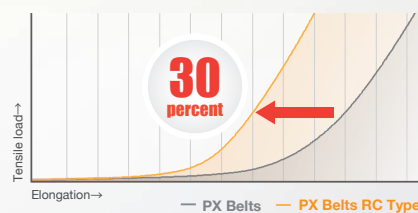
improvement

※3

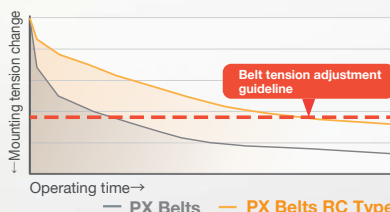
Increased Flexibility

By improving flexibility while maintaining tensile strength, belt installation has become easier.※1

Bending stiffness

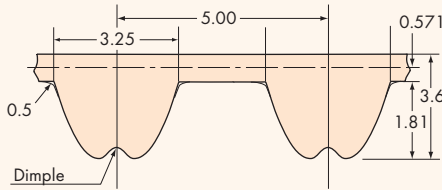


Change in mounting tension

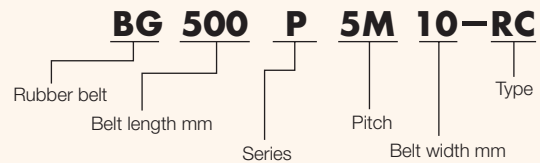


P5M (Pitch : 5.00 mm)

Belt Tooth Profile and Dimensions



Model Numbering Example



Materials

Rubber : Chloroprene rubber
Tooth Fabric : Nylon fabric (Low debris specification)
Cord : Fiberglass

Specifications and Features

Belt Sprocket : PX Belt Sprockets P5M
Operating temperature Range : -15 to 80°C
Electro conductivity : No
Oil resistant, Water resistant : No
RoHS2 Directive : Compliant

Belt Width / Unit Mass / Installation Tension

Belt width mm	Unit mass g/(mm width × m length)	Installation tension N [kgf]	
		Recommended	Max.
10	3.8	97 {9.9}	132 {13.5}
15		154 {15.7}	209 {21.3}
25		276 {28.2}	376 {38.4}

Belt Length

Belt length	No. of teeth	Belt length	No. of teeth	Belt length	No. of teeth	Belt length	No. of teeth	Belt length	No. of teeth
BG175P5M	35	BG490P5M	98	BG695P5M	139	BG1000P5M	200	BG1585P5M	317
BG215P5M	43	BG500P5M	100	BG700P5M	140	BG1025P5M	205	BG1595P5M	319
BG225P5M	45	BG515P5M	103	BG710P5M	142	BG1050P5M	210	BG1615P5M	323
BG255P5M	51	BG520P5M	104	BG725P5M	145	BG1060P5M	212	BG1675P5M	335
BG260P5M	52	BG525P5M	105	BG730P5M	146	BG1080P5M	216	BG1700P5M	340
BG275P5M	55	BG530P5M	106	BG740P5M	148	BG1090P5M	218	BG1800P5M	360
BG295P5M	59	BG545P5M	109	BG750P5M	150	BG1125P5M	225	BG1870P5M	374
BG300P5M	60	BG550P5M	110	BG765P5M	153	BG1145P5M	229	BG1910P5M	382
BG310P5M	62	BG555P5M	111	BG770P5M	154	BG1150P5M	230	BG1960P5M	392
BG320P5M	64	BG560P5M	112	BG775P5M	155	BG1160P5M	232	BG2000P5M	400
BG325P5M	65	BG565P5M	113	BG780P5M	156	BG1180P5M	236	BG2080P5M	416
BG340P5M	68	BG570P5M	114	BG800P5M	160	BG1195P5M	239	BG2160P5M	432
BG345P5M	69	BG575P5M	115	BG810P5M	162	BG1220P5M	244	BG2200P5M	440
BG350P5M	70	BG595P5M	119	BG830P5M	166	BG1225P5M	245	BG2455P5M	491
BG370P5M	74	BG600P5M	120	BG835P5M	167	BG1250P5M	250	BG2645P5M	529
BG375P5M	75	BG605P5M	121	BG850P5M	170	BG1260P5M	252	BG2725P5M	545
BG390P5M	78	BG625P5M	125	BG865P5M	173	BG1270P5M	254	BG2795P5M	559
BG400P5M	80	BG635P5M	127	BG880P5M	176	BG1295P5M	259	BG3050P5M	610
BG420P5M	84	BG640P5M	128	BG900P5M	180	BG1350P5M	270	BG3150P5M	630
BG425P5M	85	BG645P5M	129	BG905P5M	181	BG1390P5M	278	BG3930P5M	786
BG430P5M	86	BG650P5M	130	BG920P5M	184	BG1420P5M	284		
BG440P5M	88	BG670P5M	134	BG940P5M	188	BG1490P5M	298		
BG450P5M	90	BG675P5M	135	BG950P5M	190	BG1495P5M	299		
BG470P5M	94	BG680P5M	136	BG965P5M	193	BG1530P5M	306		
BG475P5M	95	BG690P5M	138	BG985P5M	197	BG1550P5M	310		

• Bold Font : Stock item Fine Font : Made to order item.

Belt-Sprocket Dimensions (Reference)

No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.
12	19.10	23	22	35.01	43	30	47.75	55	48	76.39	82
14	22.28	28	24	38.20	44	32	50.93	55	50	79.58	86
16	25.46	31	25	39.79	45	36	57.30	64	60	95.49	103
18	28.65	36	26	41.38	47	40	63.66	67	72	114.59	120
20	31.83	36	28	44.56	52	44	70.03	74			

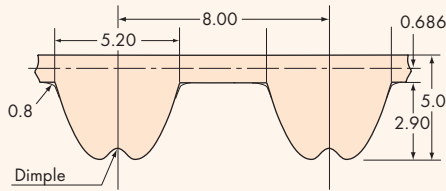
Please refer to the catalog 'Synchronous Belts & Belt Sprockets' for selection and design.

Types and Dimensions

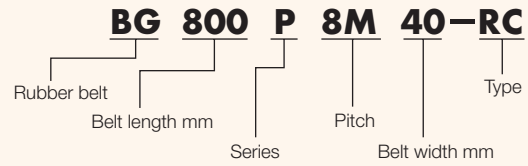
PX Belts RC Type

P8M (Pitch : 8.00 mm)

Belt Tooth Profile and Dimensions



Model Numbering Example



Materials

Rubber : Chloroprene rubber
Tooth Fabric : Nylon fabric (Low debris specification)
Cord : Fiberglass

Specifications and Features

Belt Sprocket : PX Belt Sprockets P8M
Operating temperature Range : -15 to 80°C
Electro conductivity : No
Oil resistant, Water resistant : No
RoHS2 Directive : Compliant

Belt Width / Unit Mass / Installation Tension

Belt width mm	Unit mass	Installation tension N [kgf]	
	g/(mm width × m length)	Recommended	Max.
15	5.1	203 {20.6}	265 {27.0}
25		363 {37.0}	473 {48.3}
40		617 {63.0}	807 {82.3}
60		982 {100.1}	1283 {130.9}

Belt Length

Belt length	No. of teeth	Belt length	No. of teeth	Belt length	No. of teeth	Belt length	No. of teeth
BG376P8M	47	BG832P8M	104	BG1216P8M	152	BG2032P8M	254
BG392P8M	49	BG840P8M	105	BG1248P8M	156	BG2064P8M	258
BG440P8M	55	BG848P8M	106	BG1264P8M	158	BG2104P8M	263
BG480P8M	60	BG856P8M	107	BG1280P8M	160	BG2160P8M	270
BG512P8M	64	BG880P8M	110	BG1304P8M	163	BG2240P8M	280
BG520P8M	65	BG896P8M	112	BG1320P8M	165	BG2256P8M	282
BG536P8M	67	BG912P8M	114	BG1344P8M	168	BG2304P8M	288
BG560P8M	70	BG920P8M	115	BG1352P8M	169	BG2320P8M	290
BG576P8M	72	BG936P8M	117	BG1360P8M	170	BG2400P8M	300
BG584P8M	73	BG944P8M	118	BG1400P8M	175	BG2456P8M	307
BG600P8M	75	BG960P8M	120	BG1424P8M	178	BG2496P8M	312
BG616P8M	77	BG984P8M	123	BG1440P8M	180	BG2600P8M	325
BG632P8M	79	BG1000P8M	125	BG1480P8M	185	BG2712P8M	339
BG640P8M	80	BG1032P8M	129	BG1520P8M	190	BG2768P8M	346
BG656P8M	82	BG1040P8M	130	BG1576P8M	197	BG2800P8M	350
BG680P8M	85	BG1056P8M	132	BG1600P8M	200	BG2896P8M	362
BG688P8M	86	BG1080P8M	135	BG1640P8M	205	BG2944P8M	368
BG712P8M	89	BG1096P8M	137	BG1680P8M	210	BG3048P8M	381
BG720P8M	90	BG1120P8M	140	BG1760P8M	220	BG3200P8M	400
BG752P8M	94	BG1128P8M	141	BG1800P8M	225	BG3304P8M	413
BG760P8M	95	BG1152P8M	144	BG1816P8M	227	BG3440P8M	430
BG776P8M	97	BG1160P8M	145	BG1888P8M	236	BG3600P8M	450
BG800P8M	100	BG1192P8M	149	BG1904P8M	238	BG3920P8M	490
BG816P8M	102	BG1200P8M	150	BG1960P8M	245	BG4400P8M	550
BG824P8M	103	BG1208P8M	151	BG2000P8M	250		

· Bold Font : Stock item Fine Font : Made to order item.

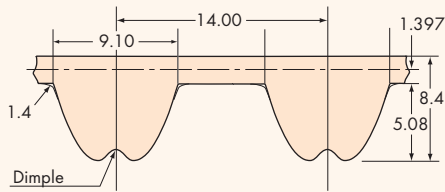
Belt-Sprocket Dimensions (Reference)

No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.
20	50.93	55	32	81.49	86	50	127.32	135
22	56.02	62	34	86.58	91	60	152.79	158
24	61.12	66	36	91.67	97	64	162.97	170
26	66.21	73	40	101.86	107	72	183.35	190
28	71.30	79	44	112.05	119			
30	76.39	82	48	122.23	127			

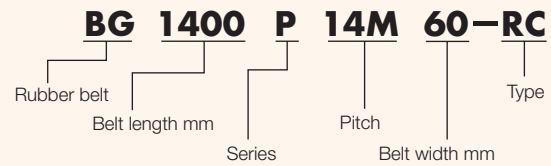
Please refer to the catalog 'Synchronous Belts & Belt Sprockets' for selection and design.

P14M (Pitch : 14.00 mm)

Belt Tooth Profile and Dimensions



Model Numbering Example



Materials

Rubber : Chloroprene rubber
Tooth Fabric : Nylon fabric (Low debris specification)
Cord : Fiberglass

Specifications and Features

Belt Sprocket : PX Belt Sprockets P14M
Operating temperature Range : -15 to 80°C
Electro conductivity : No
Oil resistant, Water resistant : No
RoHS2 Directive : Compliant

Belt Width / Unit Mass / Installation Tension

Belt width mm	Unit mass	Installation tension N {kgf}	
	g/(mm width × m length)	Recommended	Max.
40	8.6	990 {101.0}	1310 {133.6}
60		1500 {153.0}	2000 {203.9}
80		2110 {215.2}	2810 {286.5}
100		2710 {276.3}	3610 {368.1}
120		3340 {340.6}	4450 {453.8}

Belt Length

Belt length	No. of teeth	Belt length	No. of teeth	Belt length	No. of teeth
BG1120P14M	80	BG1960P14M	140	BG3850P14M	275
BG1176P14M	84	BG2002P14M	143	BG4004P14M	286
BG1190P14M	85	BG2100P14M	150	BG4382P14M	313
BG1246P14M	89	BG2198P14M	157	BG4508P14M	322
BG1344P14M	96	BG2240P14M	160		
BG1400P14M	100	BG2310P14M	165		
BG1456P14M	104	BG2380P14M	170		
BG1540P14M	110	BG2450P14M	175		
BG1610P14M	115	BG2590P14M	185		
BG1652P14M	118	BG2660P14M	190		
BG1680P14M	120	BG2800P14M	200		
BG1736P14M	124	BG2940P14M	210		
BG1778P14M	127	BG3150P14M	225		
BG1806P14M	129	BG3360P14M	240		
BG1890P14M	135	BG3500P14M	250		

• Bold Font : Stock item Fine Font : Made to order item.

Belt-Sprocket Dimensions (Reference)

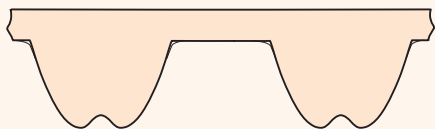
No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.	No. of teeth	Pitch circle dia.	Flange outer dia.
28	124.78	136	38	169.34	181	50	222.82	234
30	133.69	145	40	178.25	190	56	249.55	—
32	142.60	154	42	187.17	198	60	267.38	—
34	151.52	163	44	196.08	207	64	285.21	—
36	160.43	171	48	213.90	225	72	320.86	—

▶ Please refer to the catalog 'Synchronous Belts & Belt Sprockets' for selection and design.

Types and Dimensions PX Belts Open-ended Belts RC Type

P2M (Pitch : 2.00 mm) • **P3M** (Pitch : 3.00 mm) • **P5M** (Pitch : 5.00 mm) • **P8M** (Pitch : 8.00 mm)

Belt Tooth Profile



* Tooth profile, dimensions, materials, specifications and characteristics, Please refer to pages 3 to 5.

Please refer to the separate Synchronous Belts & Belt Sprockets catalog for P2M and P3M.

Model Numbering Example

〈By meter / Fraction〉

BG - **P** **5M** **25** - **RC** - **H** + **M**

Rubber belt Series Pitch Belt width mm Type Fraction Belt length m

〈By standard length (Unit)〉

BG - **P** **8M** **25** - **RC** - **T** **M**

Rubber belt Series Pitch Belt width mm RC Type Standard length m

〈By No. of teeth〉

BG - **P** **5M** **25** - **RC** - **Y**

Rubber belt Series Pitch Belt width mm Type No. of teeth

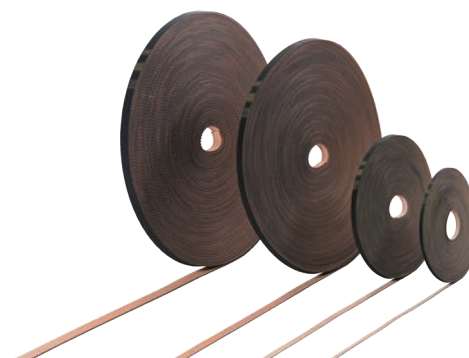
Series	Type	Pitch	Belt width mm	Standard length m	Meter	No. of teeth
PX Belt	RC Type	P2M	4	● 105	●	○
			6	● 70	●	○
			10	● 45	●	○
		P3M	6	● 110	●	○
			10	● 65	●	○
			15	● 45	●	○
		P5M	10	● 130	●	○
			15	● 85	●	○
			20	● 65	●	○
			25	● 50	●	○
		P8M	15	● 85	●	○
			20	● 65	●	○
			25	● 50	●	○

● : Stock item

○ : MTO item

By meter / Fraction : We will ship lengths equal to or greater than your ordered length.

By number of teeth: We will measure and ship the ordered number of teeth.



▶ Please refer to the catalog 'Synchronous Belts & Belt Sprockets' for selection and design.

Installation Tension

Installation Tension

Type	Belt width mm	Installation Tension T_i N {kgf}	
		Recommended	Max. Value
P2M RC Type	4	5.9 {0.6}	7.8 {0.8}
	6	9.8 {1.0}	13 {1.3}
	10	17 {1.7}	26 {2.7}
P3M RC Type	6	20 {2.0}	26 {2.7}
	10	34 {3.5}	46 {4.7}
	15	55 {5.6}	74 {7.5}
P5M RC Type	10	97 {9.9}	132 {13.5}
	15	154 {15.7}	209 {21.3}
	20	214 {21.8}	291 {29.6}
	25	276 {28.2}	376 {38.4}
P8M RC Type	15	203 {20.6}	265 {27.0}
	20	280 {28.5}	365 {37.3}
	25	363 {37.0}	473 {48.3}
	40	617 {63.0}	807 {82.3}
	60	982 {100.1}	1283 {130.9}
P14M RC Type	40	990 {101.0}	1310 {133.6}
	60	1500 {153.0}	2000 {203.9}
	80	2110 {215.2}	2810 {286.5}
	100	2710 {276.3}	3610 {368.1}
	120	3340 {340.6}	4450 {453.8}

If the belt capacity is sufficient compared to the conditions of use, the products can be used at an installation tension (T_i) that is slightly lower than the values shown above. Please check with the actual equipment before use.



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