High Torque Timing Belts

S2M, S3M, S5M, S8M, S14M Type

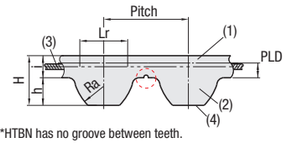
Although some tooth fabrics for MXL and XL rubber belts (TBN) are change from black to brown to prevent rubber-dust generation. However, it does not affect the performance.
For Long Timing Belts No. of Teeth Configurable Type, refer to **P.1444**.

High Torque Timing Belts – S2M, S3M, S5M, S8M, S14M Type

RoHS10

Type	Material	
HTBN	(1) Back Rubber	Chloroprene Rubber
	(2) Tooth Rubber	
	(3)Core Wire	Glass Fiber Cord S and Z Twist Alternative Series
	(4) Base Cloth	Nylon Cloth
HTUN	(1) (2) (4) Body	Polyurethane
	(3) Core Wire	Aramid Fiber

Operating Temp. Rubber: -30–90°C
Polyurethane: 0–80°C



*HTBN has no groove between teeth.

Features and Cautions **P.1339**
Selecting Method **P.3970**

Type	Pitch	Ra	Lr	H	h	i	PLD	Unit Mass g/m (Width: 10 mm)
S2M	2	1.3	1.3	1.36	0.76	0.6	0.254	13.0 (11.0)
S3M	3	1.95	1.95	1.94	1.14	0.8	0.381	19.0 (15.0)
S5M	5	3.25	3.25	3.41	1.91	1.5	0.480	34.0
S8M	8	5.2	5.2	5.3	3.05	2.25	0.686	52.0
S14M	14	9.1	9.1	10.2	5.3	4.9	1.397	100.0

Values in ( ) are the unit mass of polyurethane.

Type S2M Pitch: 2 mm

Part Number			Teeth	Belt Circum. Length (mm)	Available Types					
					HTBN			HTUN		
Type	Belt No.	Belt Nom. Width			40	60	100	40	60	100
HTBN Rubber / HTUN Polyurethane	76 S2M	40 4 mm / 60 6 mm / 100 10 mm	38	76	•	•	—	—	—	—
	78 S2M		39	78				•	•	•
	80 S2M		40	80				—	—	—
	88 S2M		44	88			•	•	•	•
	90 S2M		45	90						
	100 S2M		50	100				—	—	—
	112 S2M		56	112						
	116 S2M		58	116						
	118 S2M		59	118						
	122 S2M		61	122						
	124 S2M		62	124						
	126 S2M		63	126	•	•	•	•	•	•
	128 S2M		64	128						
	130 S2M		65	130						
	132 S2M		66	132						
	134 S2M		67	134						
	138 S2M		69	138						
	140 S2M		70	140						
	142 S2M		71	142						
	144 S2M		72	144						
	152 S2M		76	152						
	160 S2M		80	160						
	164 S2M		82	164						
	166 S2M		83	166						
	172 S2M		86	172						
	176 S2M		88	176						
	180 S2M		90	180						
	186 S2M		93	186	•	•	•	—	—	—
	190 S2M		95	190						
	194 S2M		97	194				•	•	•
	200 S2M		100	200						
	204 S2M		102	204				—	—	—
	210 S2M		105	210				•	•	•
	212 S2M		106	212						
	214 S2M		107	214				—	—	—
	218 S2M		109	218	—	—	—	•	•	•
	220 S2M		110	220						
	224 S2M		112	224						
	230 S2M		115	230				—	—	—
	234 S2M		117	234						
	236 S2M		118	236						
	240 S2M		120	240	—	—	—	•	•	•
	242 S2M		121	242						
	244 S2M		122	244						
	246 S2M		123	246						
	250 S2M		125	250						
	256 S2M		128	256				—	—	—
	260 S2M		130	260	—	—	—	•	•	•
	266 S2M		133	266	•	•	•	—	—	—
	280 S2M		140	280				•	•	•
	290 S2M		145	290						
	300 S2M		150	300				—	—	—
	320 S2M		160	320						
	324 S2M		162	324				—	—	—
	328 S2M		164	328						
	330 S2M		165	330						
	340 S2M		170	340				—	—	—
	360 S2M		180	360						
	370 S2M		185	370						
	380 S2M		190	380	•	•	•	—	—	—
	396 S2M		198	396	—	—	—			
	400 S2M		200	400				—	—	—
	436 S2M		218	436	•	•	•			
	448 S2M		224	448						
	486 S2M		243	486	—	—	—			
	488 S2M		244	488						
	500 S2M		250	500	•	•	•	—	—	—
	520 S2M		260	520						
	560 S2M		280	560	•	•	•	•	•	•
	572 S2M		286	572						
	580 S2M		290	580	—	—	—			
	600 S2M		300	600	•	•	•	—	—	—
	630 S2M		315	630	•	•	•	•	•	•
	710 S2M		355	710	•	•	•	—	—	—
	800 S2M		400	800				•	•	•
	900 S2M		450	900	•	•	•	—	—	—
	984 S2M		492	984	•	•	•	•	•	•
	1196 S2M		598	1196	•	•	•	•	•	•
	1250 S2M		625	1250	•	•	•	•	•	•
	1274 S2M		637	1274						
	1290 S2M		645	1290	•	•	•	—	—	—

Type S3M Pitch: 3 mm

Part Number			Teeth	Belt Circum. Length (mm)	Available Types					
					HTBN			HTUN		
Type	Belt No.	Belt Nom. Width			40	60	100	40	60	100
HTBN Rubber / HTUN Polyurethane	120 S3M	60 6 mm / 100 10 mm / 150 15 mm	40	120	•	•	•	—	—	—
	123 S3M		41	123						
	129 S3M		43	129						
	141 S3M		47	141						
	144 S3M		48	144				•	•	
	150 S3M		50	150			•	—	—	
	162 S3M		54	162	•	•	•	•	•	•
	171 S3M		57	171				—	—	—
	174 S3M		58	174						
	177 S3M		59	177				•	•	
	180 S3M		60	180						•
	186 S3M		62	186				•	•	•
	189 S3M		63	189			—	—	—	
	192 S3M		64	192	•	•	•	•	•	•
	195 S3M		65	195				—	—	
	201 S3M		67	201				•	•	•
	207 S3M		69	207				—	—	—
	210 S3M		70	210				•	•	•
	213 S3M		71	213	•	•	•	•	•	•
	219 S3M		73	219						
	222 S3M		74	222				—	—	—
	225 S3M		75	225				•	•	•
	234 S3M		78	234				—	—	—
	237 S3M		79	237						
	246 S3M		82	246	•	•	•			
	249 S3M		83	249	—	—	—	•	•	•
	252 S3M		84	252						
	255 S3M		85	255	•	•	•			
	264 S3M		88	264				•	•	•
	273 S3M		91	273	•	•	•	—	—	—
	276 S3M		92	276				•	•	•
	279 S3M		93	279						
	285 S3M		95	285				—	—	—
	288 S3M		96	288						
	291 S3M		97	291						
	300 S3M		100	300				•	•	•
	312 S3M		104	312	•	•	•			
	318 S3M		106	318				•	•	•
	327 S3M		109	327	—	—	—			
	339 S3M		113	339				—	—	—
	345 S3M		115	345	•	•	•	•	•	•
	354 S3M		118	354				—	—	—
	360 S3M		120	360	—	—	—	•	•	•
	363 S3M		121	363	•	•	•			
	369 S3M		123	369				•	•	•
	375 S3M		125	375						
	384 S3M		128	384				—	—	—
	387 S3M		129	387						
	396 S3M		132	396	•	•	•	—	—	—
	402 S3M		134	402	—	—	—	•	•	•
	405 S3M		135	405	•	•	•			
	408 S3M		136	408				•	•	•
	420 S3M		140	420						
	423 S3M		141	423				—	—	—
	432 S3M		144	432	•	•	•	•	•	•
	453 S3M		151	453	•	•	•			
	456 S3M		152	456				—	—	—
	459 S3M		153	459						
	474 S3M		158	474				•	•	•
	480 S3M		160	480				—	—	—
	483 S3M		161	483	•	•	•	•	•	•
	486 S3M		162	486				—	—	—
	501 S3M		167	501				•	•	•
	507 S3M		169	507				—	—	—
	519 S3M		173	519				•	•	•
	525 S3M		175	525				—	—	—
	537 S3M		179	537	•	•	•	•	•	•
	540 S3M		180	540				•	•	•
	564 S3M		188	564	—	—	—			
	591 S3M		197	591	•	•	•	•	•	•
	600 S3M		200	600						
	612 S3M		204	612				—	—	—
	633 S3M		211	633	•	•	•	•	•	•
	645 S3M		215	645				•	•	•
	660 S3M		220	660				—	—	—
	681 S3M		227	681	—	—	—	•	•	•
	741 S3M		247	741	•	•	•	•	•	•
	750 S3M		250	750				•	•	•
	804 S3M		268	804	•	•	•			
	810 S3M		270	810						
	852 S3M		284	852				•	•	•
	900 S3M		300	900	•	•	•			
	918 S3M		306	918						
	1050 S3M		350	1050	•	•	•			
	1080 S3M		360	1080						
	1119 S3M		373	1119						
	1170 S3M		390	1170				•	•	•
	1203 S3M		401	1203	•	•	•			
	1221 S3M		407	1221						
	1236 S3M		412	1236						
	1245 S3M		415	1245						
	1260 S3M		420	1260						
	1290 S3M		430	1290						
	1299 S3M		433	1299	•	•	•			
	1332 S3M		444	1332						
	1401 S3M		467	1401						
	1596 S3M		532	1596	•	•	•	•	•	•
	1680 S3M		560	1680	•	•	•			
	1788 S3M		596	1788	•	•	•			
	2100 S3M		700	2100	•	•	•			

High Torque Timing Belts

S2M, S3M, S5M, S8M, S14M Type, *continued*

Part Number Example

Part Number		
Type	Belt No.	Belt Nominal Width
HTBN	2800 S14M	400
HTUN	225 S3M	100

Type S5M Pitch: 5 mm

Part Number			Teeth	Belt Circum. Length (mm)	Available Types		
					HTBN		
Type	Belt No.	Belt Nominal Width			100	150	250
HTBN Rubber	225 S5M	100 10 mm / 150 15 mm / 250 25 mm	45	225	•	•	•
	230 S5M		46	230			
	255 S5M		51	255			
	260 S5M		52	260			
	295 S5M		59	295			
	300 S5M		60	300			
	305 S5M		61	305			
	320 S5M		64	320			
	325 S5M		65	325			
	340 S5M		68	340			
	350 S5M		70	350			
	360 S5M		72	360	•	•	•
	370 S5M		74	370			
	375 S5M		75	375			
	380 S5M		76	380			
	390 S5M		78	390			
	400 S5M		80	400			
	415 S5M		83	415	•	•	•
	425 S5M		85	425			
	435 S5M		87	435			
	440 S5M		88	440			
	450 S5M		90	450			
	475 S5M		95	475	•	•	•
	490 S5M		98	490			
	500 S5M		100	500			
	520 S5M		104	520			
	525 S5M		105	525	•	•	•
	530 S5M		106	530			
	545 S5M		109	545			
	550 S5M		110	550			
	560 S5M		112	560	•	•	•
	575 S5M		115	575			
	590 S5M		118	590			
	595 S5M		119	595			
	600 S5M		120	600			
	625 S5M		125	625	•	•	•
	640 S5M		128	640			
	650 S5M		130	650			
	665 S5M		133	665	•	•	•
	670 S5M		134	670			
	675 S5M		135	675			
	690 S5M		138	690			
	695 S5M		139	695			
	700 S5M		140	700			
	710 S5M		142	710			
	720 S5M		144	720			
	725 S5M		145	725			
	730 S5M		146	730			
	740 S5M		148	740			
	750 S5M		150	750			•
	765 S5M		153	765	•	•	•
	780 S5M		156	780			
	800 S5M		160	800	•	•	•
	810 S5M		162	810			
	830 S5M		166	830	•	•	•
	845 S5M		169	845			
	850 S5M		170	850			
	870 S5M		174	870	•	•	
	890 S5M		178	890			
	900 S5M		180	900	•	•	•
	930 S5M		186	930	•	•	•
	950 S5M		190	950			
	975 S5M		195	975			
	1000 S5M		200	1000	•	•	•
	1025 S5M		205	1025			
	1050 S5M		210	1050	•	•	•
	1055 S5M		211	1055	•	•	
	1085 S5M		217	1085			
	1090 S5M		218	1090			
	1100 S5M		220	1100			
	1105 S5M		221	1105		—	
	1115 S5M		223	1115			
	1120 S5M		224	1120			
	1125 S5M		225	1125	•	•	•
	1135 S5M		227	1135			
	1145 S5M		229	1145			
	1160 S5M		232	1160	•	•	•
	1165 S5M		233	1165			
	1195 S5M		239	1195			
	1225 S5M		245	1225			
	1250 S5M		250	1250	•	•	•
	1270 S5M		254	1270			
	1295 S5M		259	1295			
	1350 S5M		270	1350	•	•	•
	1420 S5M		284	1420	•	•	•
	1475 S5M		295	1475			
	1500 S5M		300	1500			
	1505 S5M		301	1505			
	1530 S5M		306	1530			
	1595 S5M		319	1595			
	1605 S5M		321	1605	•	•	•
	1680 S5M		336	1680			
	1715 S5M		343	1715			
	1800 S5M		360	1800	•	•	•
	2000 S5M		400	2000	•	•	•
	2145 S5M		429	2145	•	•	•
	2255 S5M		451	2255	•	•	•
	2480 S5M		496	2480	•	•	•

Type S8M Pitch: 8 mm

Part Number			Teeth	Belt Circum. Length (mm)
Type	Belt No.	Belt Nominal Width		
HTBN Rubber	480 S8M	150 15 mm / 250 25 mm / 300 30 mm / 400 40 mm	60	480
	520 S8M		65	520
	560 S8M		70	560
	584 S8M		73	584
	600 S8M		75	600
	632 S8M		79	632
	656 S8M		82	656
	712 S8M		89	712
	720 S8M		90	720
	760 S8M		95	760
	800 S8M		100	800
	824 S8M		103	824
	848 S8M		106	848
	880 S8M		110	880
	896 S8M		112	896
	920 S8M		115	920
	944 S8M		118	944
	960 S8M		120	960
	976 S8M		122	976
	1000 S8M		125	1000
	1040 S8M		130	1040
	1056 S8M		132	1056
	1080 S8M		135	1080
	1120 S8M		140	1120
	1136 S8M		142	1136
	1160 S8M		145	1160
	1200 S8M		150	1200
	1248 S8M		156	1248
	1280 S8M		160	1280
	1304 S8M		163	1304
	1360 S8M		170	1360
	1400 S8M		175	1400
	1440 S8M		180	1440
	1480 S8M		185	1480
	1520 S8M		190	1520
	1600 S8M		200	1600
	1680 S8M		210	1680
	1760 S8M		220	1760
	1776 S8M		222	1776
	1800 S8M		225	1800
	1912 S8M		239	1912
	2000 S8M		250	2000
	2240 S8M		280	2240
	2304 S8M		288	2304
	2400 S8M		300	2400
	2496 S8M		312	2496
	2600 S8M		325	2600
	2800 S8M		350	2800
	3200 S8M		400	3200
	3680 S8M		460	3680
	4400 S8M		550	4400

Type S14M Pitch: 14 mm

Part Number			Teeth	Belt Circum. Length (mm)
Type	Belt No.	Belt Nominal Width		
HTBN Rubber	1008 S14M	400 40 mm / 600 60 mm	72	1008
	1120 S14M		80	1120
	1190 S14M		85	1190
	1246 S14M		89	1246
	1400 S14M		100	1400
	1540 S14M		110	1540
	1610 S14M		115	1610
	1652 S14M		118	1652
	1778 S14M		127	1778
	1806 S14M		129	1806
	1890 S14M		135	1890
	2002 S14M		143	2002
	2100 S14M		150	2100
	2240 S14M		160	2240
	2310 S14M		165	2310
	2380 S14M		170	2380
	2450 S14M		175	2450
	2506 S14M		179	2506
	2590 S14M		185	2590
	2660 S14M		190	2660
	2800 S14M		200	2800
	3150 S14M		225	3150
	3500 S14M		250	3500
	3556 S14M		254	3556
	3850 S14M		275	3850
	4004 S14M		286	4004
	4508 S14M		322	4508
	5012 S14M		358	5012